



## 豪力精密傳動

H/F2/F3/F/H2/G3/G4 Series 準雙曲面及漸開綫  
Hypoid Gear / Helical Gear Motors 齒輪減速電機

15W~3.7kW



2025  
CATALOGUE II

H/F2/F3/F/H2/G3/G4 SERIES

準雙曲面及漸開綫齒輪減速電機



国内销售部  
电话: 0576-89205966 82876810  
传真: 0576-82876763

国际贸易部  
INTERNATIONAL TRADE DEPARTMENT  
TEL: 0086-576-89205965 82876810  
FAX: 0086-576-82876763  
ADD: No.188 Huanxi Road, Jinqing Town, Luqiao District, Taizhou  
City, Zhejiang Province, P.R.China

E-mail: [info@houlemotor.com](mailto:info@houlemotor.com)  
[www.houlemotor.com](http://www.houlemotor.com)



Website 網址



Official Accounts 公眾號

# 豪力·精密傳動

共同引領世界  
*Drive the world together*



**CUSTOMER PREEMPTION** [服務客戶]  
**EMPLOYEE CONSIDERATION** [提升員工]  
**TECHNOLOGY INNOVATION** [發展企業]

## 【FIVE STRENGTHS】 【五大強項】

Stable  
technique,  
High Quality

穩定的工藝/技術,  
品質

Perfect  
service  
system

完善的售服  
體系

Protection  
class IP65

防護等級  
IP65

Obtained  
3C & CE  
certifications

已獲得中國“CCC”  
歐洲“CE”認證

Heat proof  
& Cold proof

耐熱耐寒  
-40°C~+60°C



# GEAR REDUCTION MOTOR

## [Gear solution] Integration of Function, Quality and Performance

[齒輪解決方案]-集功能、品質、性能為一體。

Our company has ultra-high and multiple processing techniques, achieving integrating gear solution with function, quality and performance. Customer can select the most suitable gear type according to purpose.

本公司有各類技術和超高的加工工藝，實現功能、品質、性能為一體的齒輪解決方案。可根據用途選擇最合適的齒輪形式。



### HYPOID GEAR

#### Hypoid gear 【miniaturized design】

- Great startup and operation efficiency,
- Maximum space saving
- Control compact fuselage.
- Easily out any installation.

#### 準雙曲面齒輪【小型化設計】

啓動效率和運轉效率良好，最大限度節省空間。控制了高度緊湊型機身，可自如進行任何安裝。



### HELICAL GEAR

#### Helical gear 【low noise and high efficiency】

- Low noise, high efficiency.
- Easy installation and easy maintenance.
- It achieves lightweight and miniaturization with rich functions.

#### 斜齒輪【低噪音、高效率】

低噪音、高效率且易于安裝和維護的平行軸齒輪減速電機。實現輕量化、小型化，功能豐富。

直  
交  
軸

Motor 電機 15W~140W

Gear ratio 減速比 1/5~1/240

- Foot mounting 底腳安裝
- Flange mounting 法蘭安裝

Hypoid gear reduction motor H series

準雙曲面齒輪減速電機H系列



直  
交  
軸

Motor 電機 15W~140W

Gear ratio 減速比 1/5~1/240

- Hollow shaft 中空軸
- Solid shaft 實心軸

Hypoid gear reduction motor F2 series

準雙曲面齒輪減速電機F2系列  
(長方同心法蘭型)



直  
交  
軸

Motor 電機 0.1kW~3.7kW

Gear ratio 減速比 1/5~1/240

- Hollow shaft 中空軸
- Solid shaft 實心軸

Hypoid gear reduction motor F3 series

準雙曲面齒輪減速電機F3系列  
(長方同心法蘭型)



Hypoid gear reduction motor F series

準雙曲面齒輪減速電機F系列  
(長方偏心法蘭型)



直  
交  
軸

Motor 電機 0.1kW~3.7kW

Gear ratio 減速比 1/5~1/240

- Foot mounting 底腳安裝
- Flange mounting 法蘭安裝

Hypoid gear reduction motor H2 series

準雙曲面齒輪減速電機H2系列



平  
行  
軸

Motor 電機 0.1KW~3.7KW

Gear ratio 減速比 1/5~1/240

- Foot mounting 底腳安裝
- Flange mounting 法蘭安裝

Gear reduction motor G3/4 series

齒輪減速電機G3/4系列



# SELECTION 目錄

## H Series hypoid reduction motor

15W~140W

H系列小型準雙曲面齒輪減速機

|                                                                                   |                                                                         |
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| ● Flange mounting<br>法蘭安裝                                                         | Standard specification, ..... 13<br>motor characteristics<br>標準規格, 電機特性 |
|  | Feature table, size diagram ..... 14<br>特性表, 外形圖                        |

## F2 Series hypoid reduction motor

15W~140W

F2系列小型準雙曲面齒輪減速機（長方同心法蘭型）

|                                                                                     |                                                                         |
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## F3 Series hypoid reduction motor

0.1kW~3.7kW

F3系列中型準雙曲面齒輪減速機（長方同心法蘭型）

|                                                                                     |                                                                         |
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## F Series hypoid reduction motor

0.1kW~3.7kW

F系列中型準雙曲面齒輪減速機（長方偏心法蘭型）

|                                                                                     |                                                                          |
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## H2 Series hypoid reduction motor

0.1kW~3.7kW

H2系列中型準雙曲面齒輪減速機

|                                                                                       |                                                                          |
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| ● Flange mounting<br>法蘭安裝                                                             | Standard specification, ..... 152<br>motor characteristics<br>標準規格, 電機特性 |
|  | Feature table, size diagram ..... 153<br>特性表, 外形圖                        |

## G3/4 Series parallel shaft gear reduction motor

0.1kW~3.7kW

G3/4系列中型平行軸減速電機

|                                                                                       |                                                                          |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
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## High efficiency motor and customization

0.1kW~3.7kW

高效電機及定制

|                                                                                       |                                                              |
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|---------------------------------------------------------------------------------------|--------------------------------------------------------------|



## [Perfect model choice]-MectVariety Equipment Requirements

【完美匹配機型】-滿足裝置需求

Our company has product lines with different standards waterproof, food machinery, CE&CCC certification. We care committed to provide best solution to meet all customer requirements

本公司擁有豐富的產品陣容：防水規格、食品機械和符合“CCC”標準規格，可提供完美匹配各行各業的機型。并致力于為客戶提供滿足裝置需求的最合適的解決方案。

### Waterproof specification

Protection class : IP65

Working environment : It's most suitable for use in the environment where mechanical devices are drenched or washed directly.

### 防水規格

擁有相當於保護等級IP65的防水規格產品。  
最適合在機械裝置淋水或直接水洗的環境中使用。



### Heat proof & Cold proof specifications

Heat proof Temp Range : 0°C ~ +60°C

Cold Proof Temp Range: -40°C ~ +40°C

Stable operation special environment.

### 耐熱、耐寒規格

耐熱規格 0°C ~ +60°C、耐寒規格 -40°C ~ +40°C  
在各類特殊環境下發揮作用。



# H Series

## HYPOID GEAR REDUCTION MOTOR

### H系列小型準雙曲面齒輪減速電機

15W~140W

- Description of models . . . . . 9  
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motor characteristics  
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- Feature table, size diagram. . . . . 14  
特性表、外形圖



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> DESCRIPTION OF MODEL

型號說明

H

L

15 ( 5 )

L

-

25K

+

15

R

-

C2

F

-

T

A1

-

TB

-

W

-

IP

1

2

3

4

5

6

7

8

9

10

11

12

13

14

|    |                                                  |                                                                                                                                                                         |                                                                                                                                                                             |                                                                                                                                                                            |
|----|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Type code 機型系列代號                                 | H: H type hypoid gear reduction motor    H: H系列小型準雙曲面齒輪減速機                                                                                                              |                                                                                                                                                                             |                                                                                                                                                                            |
| 2  | Installation 安裝方式                                | L: Foot mounting                      L: 底腳安裝                                                                                                                           |                                                                                                                                                                             |                                                                                                                                                                            |
|    |                                                  | F: Flange mounting                      F: 法蘭安裝                                                                                                                         |                                                                                                                                                                             |                                                                                                                                                                            |
| 3  | Output shaft DIA 輸出軸軸徑                           | 15 ( 5 ) : Φ15 ( 鍵槽尺寸 5 )    18 ( 6 ) : Φ18 ( 6 )                                                                                                                       |                                                                                                                                                                             |                                                                                                                                                                            |
| 4  | Axis configuration 軸配置                           | <div>Viewed from input shaft output shaft is on the left<br/>L:從輸入軸一側觀察,輸出軸位于左側</div>  | <div>Viewed from input shaft output shaft is on both sides<br/>T:從輸入軸一側觀察,輸出軸位于兩側</div>  | <div>Viewed from input shaft output shaft is on the right<br/>R:從輸入軸一側觀察,輸出軸位于右側</div>  |
| 5  | Gear ratio 減速比                                   | 10: 1:10    15: 1:15    20: 1:20    25: 1:25    30: 1:30    x :1:x                                                                                                      |                                                                                                                                                                             |                                                                                                                                                                            |
| 6  | Rated power 額定功率                                 | 15: 15W    25: 25W    40: 40W    60: 60W    90: 90W    x: xW                                                                                                            |                                                                                                                                                                             |                                                                                                                                                                            |
| 7  | Brake unit 剎車器形式                                 | R: Variable speed motor    調速電機<br>WM: NO variable speed brake motor    非調速剎車電機<br>W: NO variable speed motor    非調速電機<br>RM: Variable speed brake motor    調速剎車電機      |                                                                                                                                                                             |                                                                                                                                                                            |
| 8  | Rated voltage 額定電壓                               | C1: 1-Phase 單相 110V<br>C2: 1-Phase 單相 220V<br>S2: 3-Phase 三相 220V<br>S3: 3-Phase 三相 380V<br>S2/3: 3-Phase 三相 220/380V                                                   |                                                                                                                                                                             |                                                                                                                                                                            |
| 9  | Code of fan 風扇代號                                 | F: Common 普通風扇<br>※No make means motor without fan    無風扇不標                                                                                                             |                                                                                                                                                                             |                                                                                                                                                                            |
| 10 | Terminal box 接綫盒                                 | T: Terminal type 接綫盒型<br>N: 無接綫盒 ( 引出綫外漏 )                                                                                                                              |                                                                                                                                                                             |                                                                                                                                                                            |
| 11 | Terminal box direction form output shaft 從軸端看盒位置 | A1: Top direction 上方向<br>A2: Down direction 下方向<br>Remark備注: A1direction is standard A1是標配方向                                                                            |                                                                                                                                                                             |                                                                                                                                                                            |
| 12 | Lead wire direction form output shaft 從軸端看出綫方向   | T: Top direction 向上方向<br>D: Down direction 向下方向<br>F: Forward direction 向前方向<br>B: Back 向后方向                                                                            |                                                                                                                                                                             |                                                                                                                                                                            |
| 13 | Color 顏色                                         | W: White 灰白色                                                                                                                                                            |                                                                                                                                                                             |                                                                                                                                                                            |
| 14 | Protection Class 防護等級                            | 20            65                                                                                                                                                        |                                                                                                                                                                             |                                                                                                                                                                            |

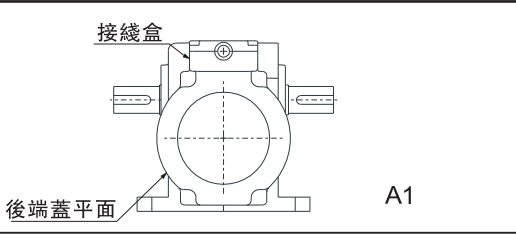
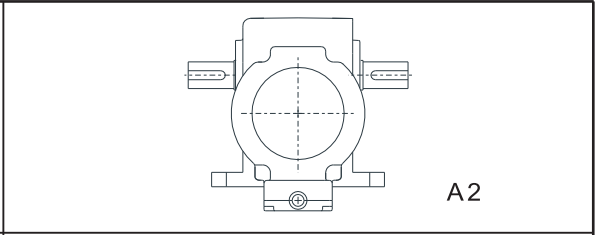
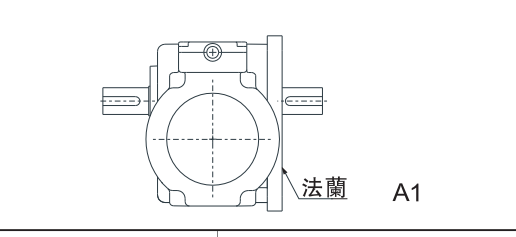
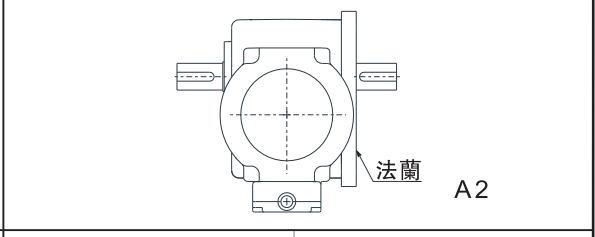
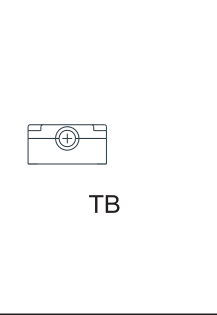
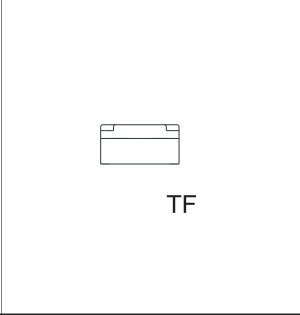
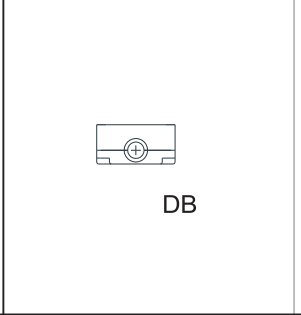
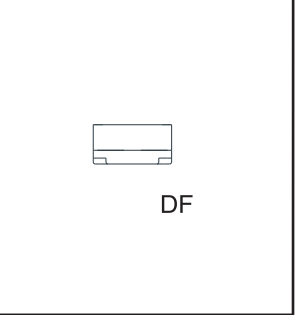
As technical data for these machines may be advantaged , please contact us or visit the company website. Not allow for publish without formal approved.

因技術改進，實際值可能與上述參數有差異，恕不另行通知，若需具體參數，敬請諮詢本公司或瀏覽網站。

> DESCRIPTION OF MODEL

型號說明

Terminal box direction, lead wire direction and ventilation installation diagram 接綫盒位置和引出綫方向示意圖

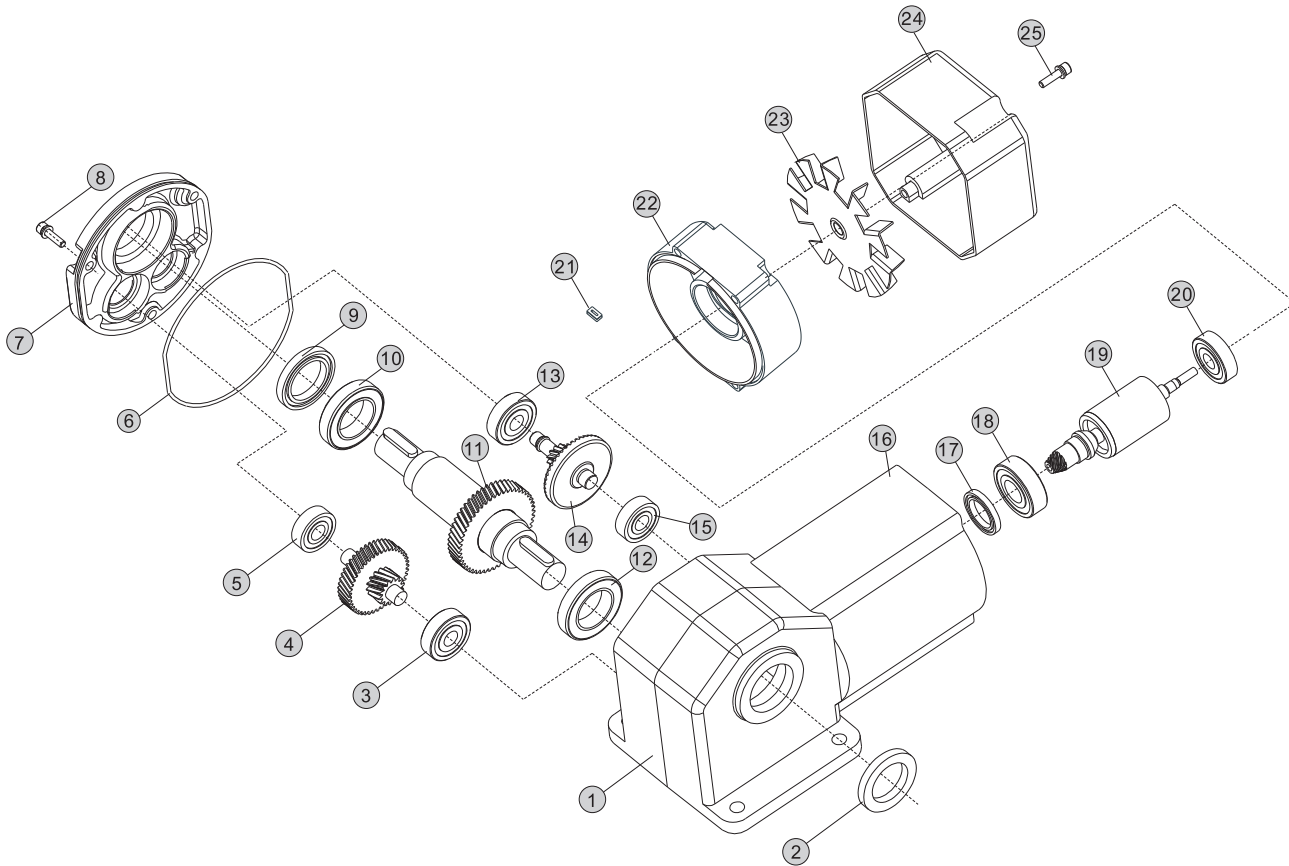
|                                                                             |    |                                                                                      |  |                                                                                      |  |
|-----------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------|--|
| View the terminal box position from the input shaft end.<br><br>從輸入軸端看接綫盒方位 | HL |   |  |   |  |
|                                                                             | HF |   |  |   |  |
| Lead wire direction from output shaft<br><br>從軸端看引出綫方向                      |    |  |  |  |  |
|                                                                             |    |  |  |  |  |



STANDERD MODEL COMPOSITION TABLE 標準機型構成表

| Model<br>型號 | Rated Power<br>電機功率 | Shaft Dim<br>軸徑(d) | Axis Configuration<br>軸配置 | Ratio<br>減速比                                                                 |
|-------------|---------------------|--------------------|---------------------------|------------------------------------------------------------------------------|
| 減速機         | 15W                 | 15d                | L<br>T<br>R               | 1/5 1/10 1/15 1/20 1/30 1/40 1/50 1/60<br>1/80 1/100 1/120 1/160 1/200 1/240 |
|             | 25W                 | 15d                | L<br>T<br>R               | 1/5 1/10 1/15 1/20 1/30 1/40 1/50 1/60<br>1/80 1/100 1/120 1/160 1/200 1/240 |
|             | 40W                 | 15d                | L<br>T<br>R               | 1/5 1/10 1/15 1/20 1/30 1/40 1/50 1/60<br>1/80 1/100 1/120 1/160 1/200 1/240 |
|             | 40W                 | 18d                | L<br>T<br>R               | 1/5 1/10 1/15 1/20 1/30 1/40 1/50 1/60<br>1/80 1/100 1/120 1/160 1/200 1/240 |
|             | 60W                 | 18d                | L<br>T<br>R               | 1/5 1/10 1/15 1/20 1/30 1/40 1/50 1/60<br>1/80 1/100 1/120 1/160 1/200 1/240 |
|             | 90W                 | 18d                | L<br>T<br>R               | 1/5 1/10 1/15 1/20 1/30 1/40 1/50 1/60<br>1/80 1/100 1/120 1/160 1/200 1/240 |
| 帶制動器減速機     | 120W                | 18d                | L<br>T<br>R               | 1/5 1/10 1/15 1/20 1/30 1/40 1/50 1/60<br>1/80 1/100 1/120 1/160 1/200 1/240 |
|             | 140W                | 18d                | L<br>T<br>R               | 1/5 1/10 1/15 1/20 1/30 1/40 1/50 1/60<br>1/80 1/100 1/120 1/160 1/200 1/240 |

PRODUCT STRUCTURE DIAGRAM 產品結構圖



Detail parts list 零件清單

| No | Denomination<br>零件名稱  | No | Denomination<br>零件名稱   | No | Denomination<br>零件名稱 |
|----|-----------------------|----|------------------------|----|----------------------|
| 1  | Housing 本體            | 11 | Output main gear 輸出輪組件 | 21 | Wire Jacket 護綫套      |
| 2  | Oil seal 油封           | 12 | Ball bearing 軸承        | 22 | Rear cover 後端蓋       |
| 3  | Ball bearing 軸承       | 13 | Ball bearing 軸承        | 23 | Fan 風葉               |
| 4  | 2nd main gear 二軸組件    | 14 | 1st main gear 一輪組件     | 24 | Fan cover 風罩         |
| 5  | Ball bearing 軸承       | 15 | Ball bearing 軸承        | 25 | Cross screw 十字螺釘     |
| 6  | O-ring O型密封圈          | 16 | Stator 定子總成            |    |                      |
| 7  | Bearing plate 軸承板     | 17 | Oil seal 油封            |    |                      |
| 8  | Inner hex.screw 內六角螺釘 | 18 | Ball bearing 軸承        |    |                      |
| 9  | Oil seal 油封           | 19 | Rotor 轉子               |    |                      |
| 10 | Ball bearing 軸承       | 20 | Ball bearing 軸承        |    |                      |

STANDARD SPECIFICATIONS 標準規格

|                     |                                |                                                                         |                   |
|---------------------|--------------------------------|-------------------------------------------------------------------------|-------------------|
| Motor<br>電機         | Phase<br>相數                    | Single phase 單相                                                         | Three phases 三相   |
|                     | Power<br>功率                    | 15, 25, 40, 60, 90, 120, 140W                                           |                   |
|                     |                                | No brake、with brake 無制動器、附帶制動器                                          |                   |
|                     | Rated power<br>電壓              | 220v/50Hz                                                               | 380v/50Hz         |
|                     | Poles of the motor<br>電機極數     | 4                                                                       |                   |
|                     | Protection class<br>防護等級       | IP65                                                                    |                   |
|                     | Cooling-down method<br>冷卻方式    | 15~40W-自冷卻型 (IC410) 60~140W-自控型 (IC411)                                 |                   |
|                     | Starting duty<br>啟動方式          | Running capacitor 運轉電容                                                  | Direct start 全壓啟動 |
|                     | Time duty<br>工作制式              | Continuous running 連續運轉                                                 |                   |
|                     | Insucation class<br>絕緣         | B                                                                       |                   |
| Reducer<br>減速器      | Action<br>制動器方式                | Non-excitation action type、<br>DC electromagnetic brake 無勵磁動作型、直流電磁制動器  |                   |
|                     | Ratio<br>減速比                   | 1/5~1/240                                                               |                   |
|                     | Lubricating<br>潤滑方式            | Lubricant 封閉 潤滑油                                                        |                   |
| Environment<br>適用環境 | Shaft end key way<br>軸端鍵槽部     | GB/T1095-2003: 附帶輸出軸鍵 ( 鍵為普通級別 )                                        |                   |
|                     | Installation site<br>安裝場所      | Less dust .nowater drench place 室內塵埃較少、無水淋的場所                           |                   |
|                     | Temperature<br>溫度              | -10℃~+40℃                                                               |                   |
|                     | Humidity<br>濕度                 | Below85% 85%以下 ( 無結霜 )                                                  |                   |
|                     | Environment<br>環境              | Non-corrosive gas、explosive gas、<br>water vapor etc 無腐蝕性氣體、爆炸性氣體，水蒸氣等   |                   |
|                     | Installation direction<br>安裝方向 | No horizontal、vertical、<br>tilt mounting restrictions 無水平、垂直、傾斜等安裝角度的限制 |                   |
|                     | Color<br>顏色                    | White白灰色                                                                |                   |

motor characteristic 電機特性

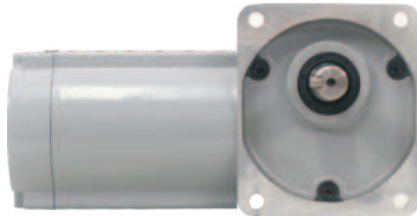
| Phase<br>相數                                                         | Power<br>功率 | Poles of<br>the motor<br>電機<br>極數 | Rated Power<br>頻率 ( Hz ) | Rated Power<br>電壓 ( V ) | Rated Power<br>額定電流值 ( A ) | Rated Power<br>額定轉速 ( rpm ) | 20℃時，直流側制動器<br>電流值 ( A,參考值 ) |
|---------------------------------------------------------------------|-------------|-----------------------------------|--------------------------|-------------------------|----------------------------|-----------------------------|------------------------------|
| Singe<br>phase<br>/<br>Three<br>phases<br><br>單<br>相<br>/<br>三<br>相 | 15W         | 4                                 | 50                       | 220<br>( 380 )          | 0.14<br>( 0.11 )           | 1350                        | 0.07                         |
|                                                                     | 25W         |                                   |                          |                         | 0.2<br>( 0.11 )            |                             | 0.07                         |
|                                                                     | 40W         |                                   |                          |                         | 0.32<br>( 0.13 )           |                             | 0.07                         |
|                                                                     | 60W         |                                   |                          |                         | 0.42<br>( 0.17 )           |                             | 0.08                         |
|                                                                     | 90W         |                                   |                          |                         | 0.55<br>( 0.26 )           |                             | 0.08                         |
|                                                                     | 120W        |                                   |                          |                         | 0.8<br>( 0.35 )            |                             | 0.08                         |
|                                                                     | 140W        |                                   |                          |                         | 1.13<br>( 0.55 )           |                             | 0.08                         |

注 ) 額定電流值 ( ) 內為380V時的值。  
As technical data for these machines may be advantaged , please contact us or visit the company website. Not allow for publish without formal approved.  
因技術改進，實際值可能與上述參數有差異，恕不另行通知，若需具體參數，敬請諮詢本公司或瀏覽網站。

15W  
1-PHASE/3-PHASE  
單相/三相



HL15 ( 5 ) T- ( 5~240 ) K  
+15RC2-N



HF15 ( 5 ) T- ( 5~240 ) K  
+15RC2-N

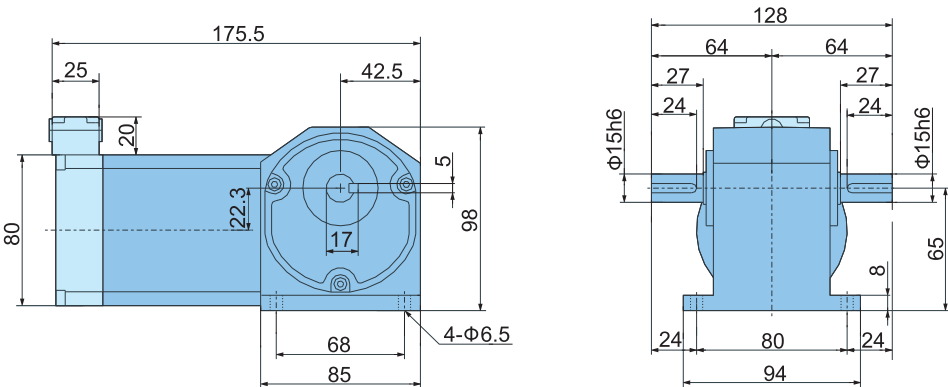
| Power<br>功 率 | Rated Voltage<br>電 壓 ( V ) | Rated Frequency<br>頻 率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|--------------|----------------------------|-------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 15W          | 380                        | 50                            | 0.11                         | 1350                        | B                        | 20 65                    |
|              | 220                        | 50                            | 0.14                         | 1350                        |                          |                          |

| Power<br>功 率 | Shaft Dim<br>軸 徑 | Overall Dimensions<br>外形尺寸圖 |      | Ratio<br>減速比 | Output Speed<br>輸出轉速 ( rpm ) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|--------------|------------------|-----------------------------|------|--------------|------------------------------|---------------------------|---------|----------------------------|-----|
|              |                  | HL                          | HF   |              | 50Hz                         | N · m                     | kgf · m | N                          | kgf |
| 15W          | Φ15(5)           | A-1                         | A-6  | 1/5          | 300                          | 0.48                      | 0.04    | 266                        | 27  |
|              |                  |                             |      | 1/10         | 150                          | 0.69                      | 0.07    | 343                        | 35  |
|              |                  |                             |      | 1/15         | 100                          | 0.98                      | 0.10    | 441                        | 45  |
|              |                  | A-2                         | A-7  | 1/20         | 75                           | 1.27                      | 0.13    | 539                        | 55  |
|              |                  |                             |      | 1/30         | 50                           | 1.96                      | 0.20    | 686                        | 70  |
|              |                  |                             |      | 1/40         | 37.5                         | 2.65                      | 0.27    | 784                        | 80  |
|              |                  | A-3                         | A-8  | 1/50         | 30                           | 3.33                      | 0.34    | 882                        | 90  |
|              |                  |                             |      | 1/60         | 25                           | 3.92                      | 0.40    | 882                        | 90  |
|              |                  |                             |      | 1/80         | 18.8                         | 5.00                      | 0.51    | 980                        | 100 |
|              |                  | A-4                         | A-9  | 1/100        | 15                           | 6.27                      | 0.64    | 980                        | 100 |
|              |                  |                             |      | 1/120        | 12.5                         | 7.45                      | 0.76    | 1080                       | 110 |
|              |                  |                             |      | 1/160        | 9.4                          | 9.80                      | 1.0     | 1080                       | 110 |
|              |                  | A-5                         | A-10 | 1/200        | 7.5                          | 12.7                      | 1.3     | 1080                       | 110 |
|              |                  |                             |      | 1/240        | 6.3                          | 14.7                      | 1.5     | 1080                       | 110 |

Note: 1.Output O.H.L is the center of output shaft. ( 注 ) 1.容許O.H.L為輸出軸中央的位置。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。

Foot mounting 底腳安裝  
NO variable speed motor 非調速電機 ( 防護等級：IP65 )

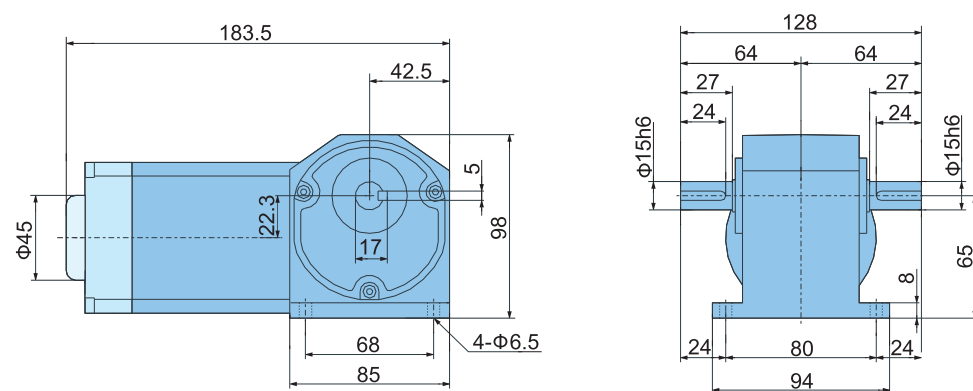
圖A-1 HL15 ( 5 ) T- ( 5~240 ) K+15WC2-T





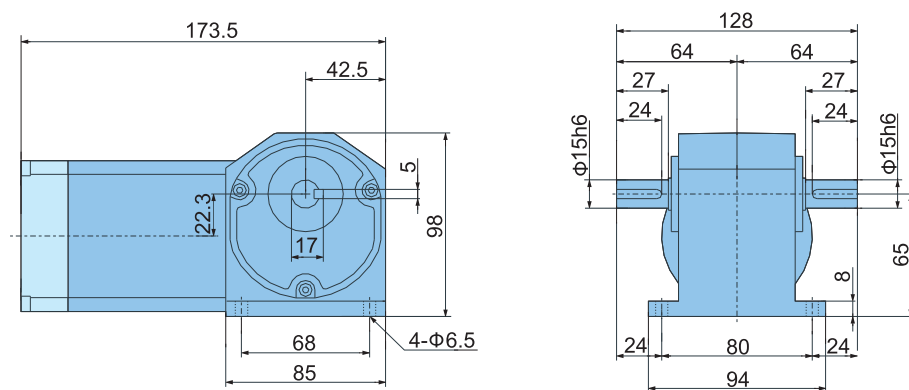
Foot mounting 底腳安裝  
Variable speed motor 調速電機 (防護等級: IP20)

圖A-2 HL15 (5) T- (5~240) K+15RC2-N



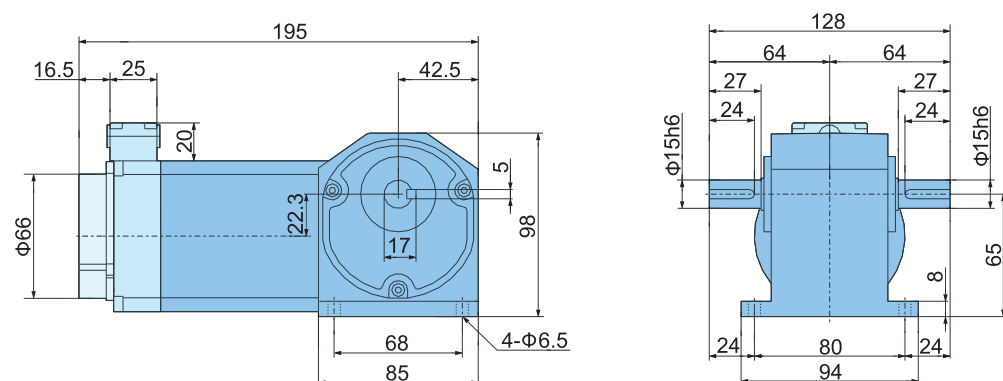
Foot mounting 底腳安裝  
NO variable speed motor 非調速電機 (防護等級: IP20)

圖A-3 HL15 (5) T- (5~240) K+15WC2-N



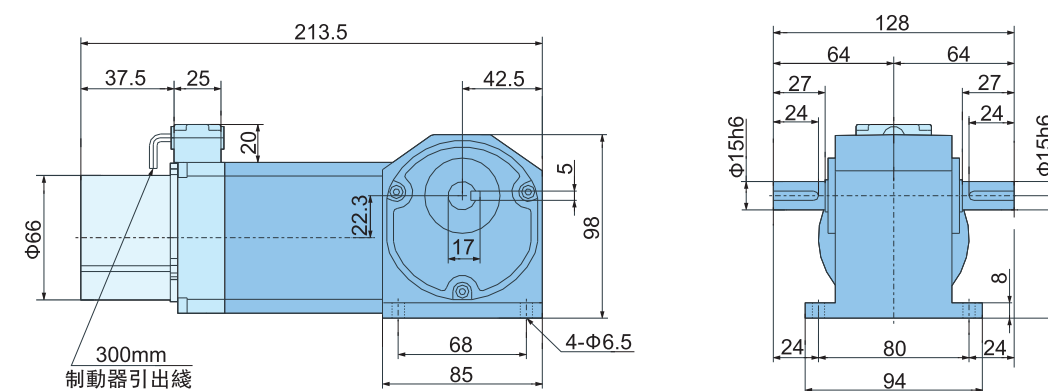
Foot mounting 底腳安裝  
Variable speed motor 調速電機 (防護等級: IP65)

圖A-4 HI15 (5) T- (5~240) K+15RC2-T



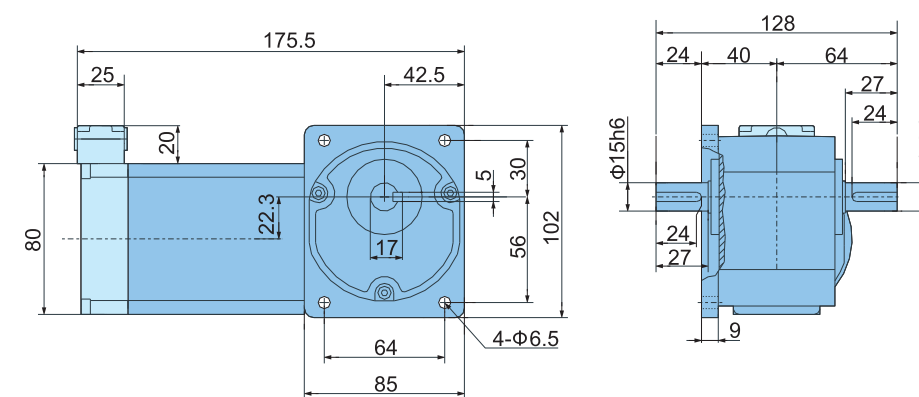
Foot mounting 底腳安裝 (防護等級: IP65)  
NO variable speed brake motor 非調速剎車電機

圖A-5 HL15 (5) T- (5~240) K+15WMC2-T



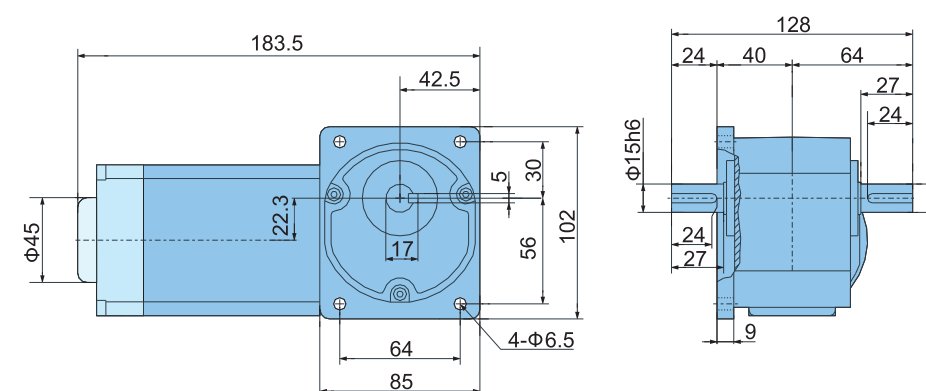
Flange mounting 法蘭安裝  
NO variable speed motor 非調速電機 (防護等級: IP65)

圖A-6 HF15 (5) T- (5~240) K+15WC2-T



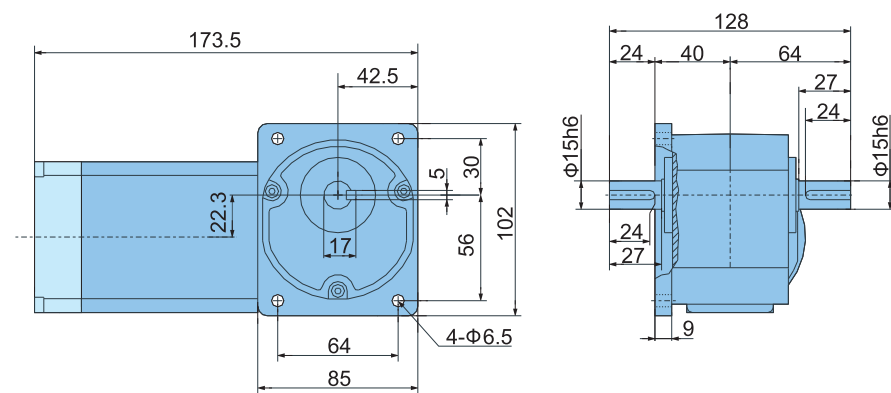
Flange mounting 法蘭安裝  
Variable speed motor 調速電機 (防護等級: IP20)

圖A-7 HF15 (5) T- (5~240) K+15RC2-N



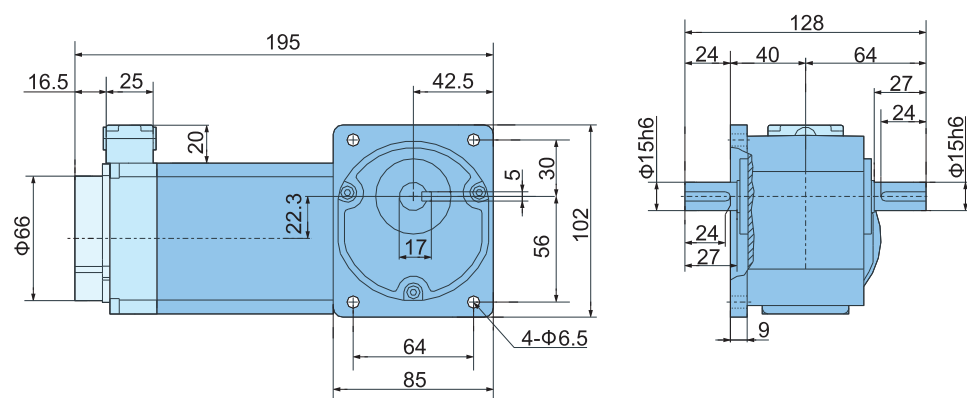
Flange mounting 法蘭安裝  
Variable speed motor 調速電機 (防護等級: IP20)

圖A-8 HF15 (5) T- (5~240) K+15WC2-N



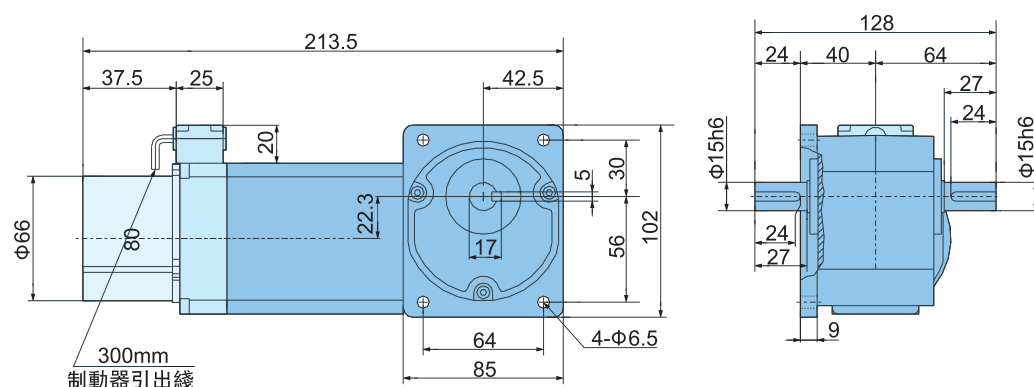
Flange mounting 法蘭安裝  
Variable speed motor 調速電機 (防護等級: IP65)

圖A-9 HF15 (5) T- (5~240) K+15RC2-T



Flange mounting 法蘭安裝 (防護等級: IP65)  
NO variable speed brake motor 非調速剎車電機

圖A-10 HF15 (5) T- (5~240) K+15WMC2-T



25W  
1-PHASE/3-PHASE  
單相/三相



HL15 (5) T- (5~240) K  
+25RC2-N



HF15 (5) T- (5~240) K  
+25RC2-N

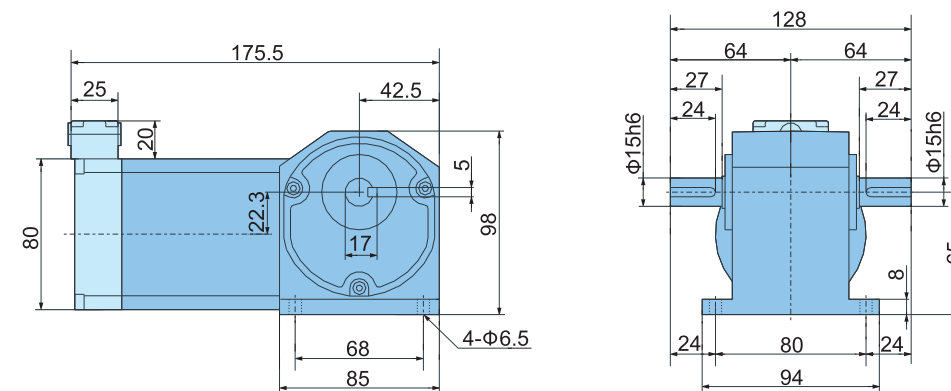
| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Frequency<br>頻率 (Hz) | Rated Currment<br>額定電流 (A) | Rated Speed<br>額定轉速 (rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|----------------------------|----------------------------|---------------------------|--------------------------|--------------------------|
| 25W         | 380                     | 50                         | 0.11                       | 1350                      | B                        | 20 65                    |
|             | 220                     | 50                         | 0.20                       | 1350                      |                          |                          |

| Power<br>功率 | Shaft Dim<br>軸徑 | Overall Dimensions<br>外形尺寸圖 |      | Ratio<br>減速比 | Output Speed<br>輸出轉速 (rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------|-----------------------------|------|--------------|----------------------------|---------------------------|---------|----------------------------|-----|
|             |                 | HL                          | HF   |              |                            | N · m                     | kgf · m | N                          | kgf |
| 25W         | Φ15(5)          | A-11                        | A-16 | 1/5          | 300                        | 0.69                      | 0.07    | 266                        | 27  |
|             |                 |                             |      | 1/10         | 150                        | 1.08                      | 0.11    | 343                        | 35  |
|             |                 |                             |      | 1/15         | 100                        | 1.67                      | 0.17    | 441                        | 45  |
|             |                 |                             |      | 1/20         | 75                         | 2.25                      | 0.23    | 539                        | 55  |
|             |                 | A-12                        | A-17 | 1/30         | 50                         | 3.33                      | 0.34    | 686                        | 70  |
|             |                 |                             |      | 1/40         | 37.5                       | 4.41                      | 0.45    | 784                        | 80  |
|             |                 |                             |      | 1/50         | 30                         | 5.49                      | 0.56    | 882                        | 90  |
|             |                 |                             |      | 1/60         | 25                         | 6.66                      | 0.68    | 882                        | 90  |
|             |                 | A-13                        | A-18 | 1/80         | 18.8                       | 8.43                      | 0.86    | 980                        | 100 |
|             |                 |                             |      | 1/100        | 15                         | 10.8                      | 1.1     | 980                        | 100 |
|             |                 |                             |      | 1/120        | 12.5                       | 12.7                      | 1.3     | 1080                       | 110 |
|             |                 |                             |      | 1/160        | 9.4                        | 16.7                      | 1.7     | 1080                       | 110 |
|             |                 | A-14                        | A-19 | 1/200        | 7.5                        | 20.6                      | 2.1     | 1080                       | 110 |
|             |                 |                             |      | 1/240        | 6.3                        | 25.5                      | 2.6     | 1080                       | 110 |
|             |                 | A-15                        | A-20 |              |                            |                           |         |                            |     |
|             |                 |                             |      |              |                            |                           |         |                            |     |
|             |                 |                             |      |              |                            |                           |         |                            |     |
|             |                 |                             |      |              |                            |                           |         |                            |     |

Note: 1. Output O.H.L is the center of output shaft. (注) 1. 容許O.H.L為輸出軸中央的位置。  
2. Output speed = motor/reduction ration. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。

Foot mounting 底腳安裝  
NO variable speed motor 非調速電機 (防護等級: IP65)

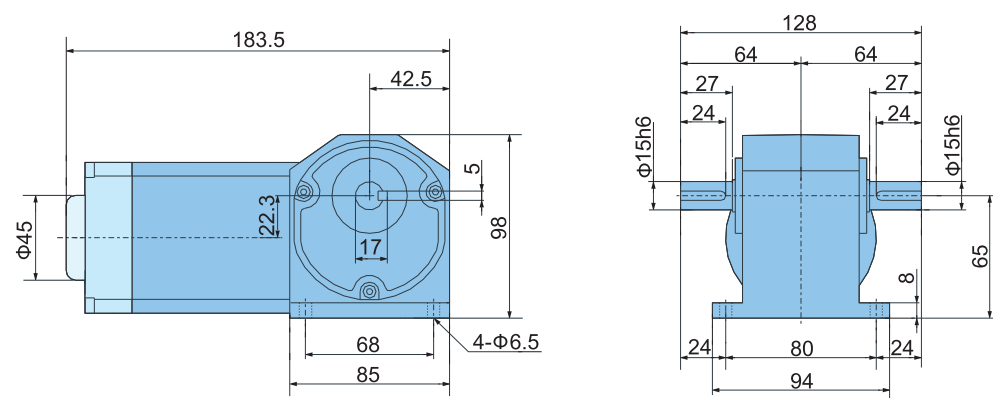
圖A-11 HL15 (5) T- (5~240) K+25WC2-T





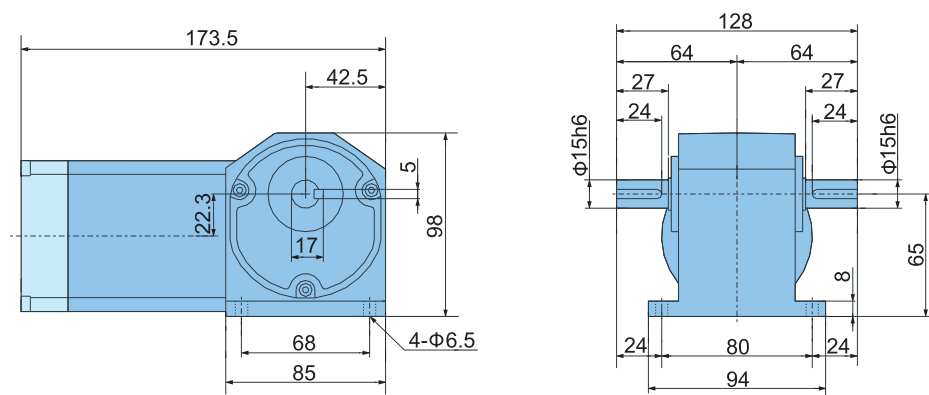
Foot mounting 底腳安裝  
Variable speed motor 調速電機 (防護等級: IP20)

圖A-12 HL15 (5) T- (5~240) K+25RC2-N



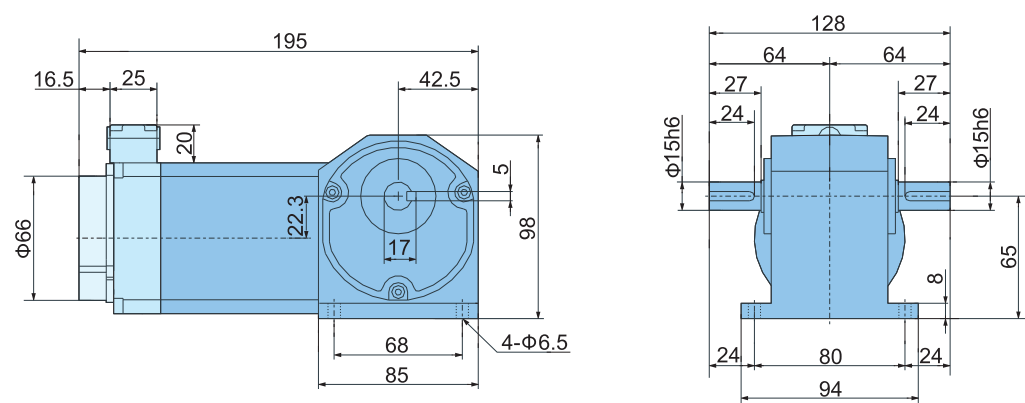
Foot mounting 底腳安裝  
NO variable speed motor 非調速電機 (防護等級: IP20)

圖A-13 HL15 (5) T- (5~240) K+25WC2-N



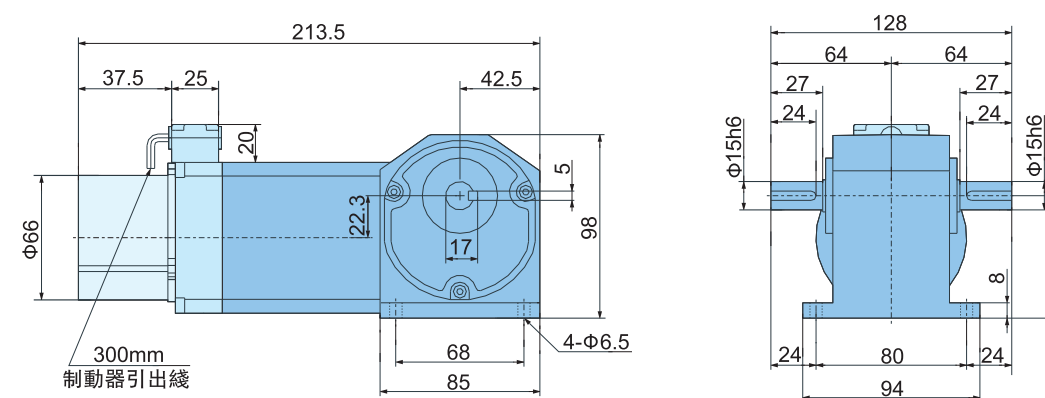
Foot mounting 底腳安裝  
Variable speed motor 調速電機 (防護等級: IP65)

圖A-14 HL15 (5) T- (5~240) K+25RC2-T



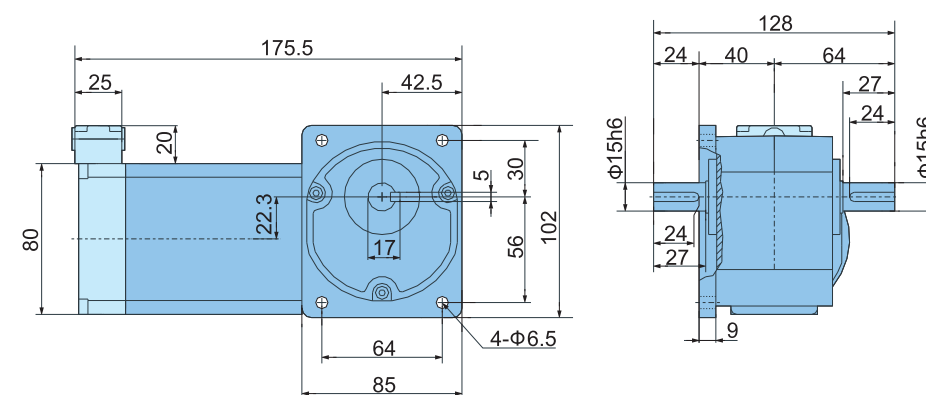
Foot mounting 底腳安裝 (防護等級: IP65)  
Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機

圖A-15 HL15 (5) T- (5~240) K+25WMC2-T



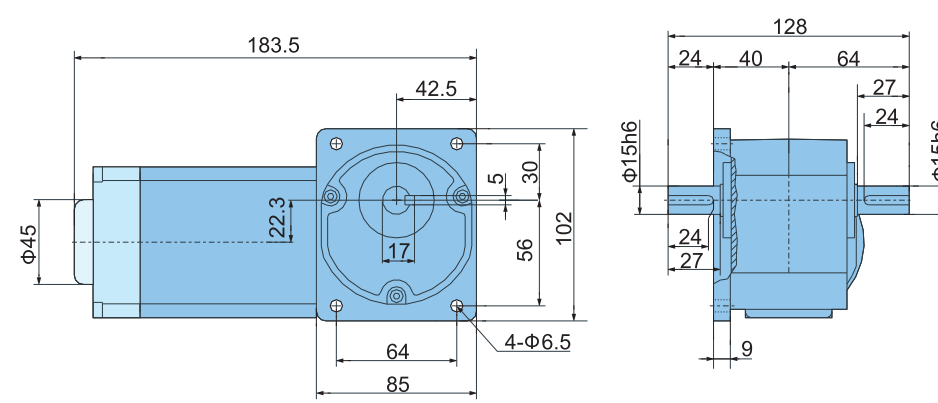
Flange mounting 法蘭安裝  
NO variable speed motor 非調速電機 (防護等級: IP65)

圖A-16 HF15 (5) T- (5~240) K+25WC2-T



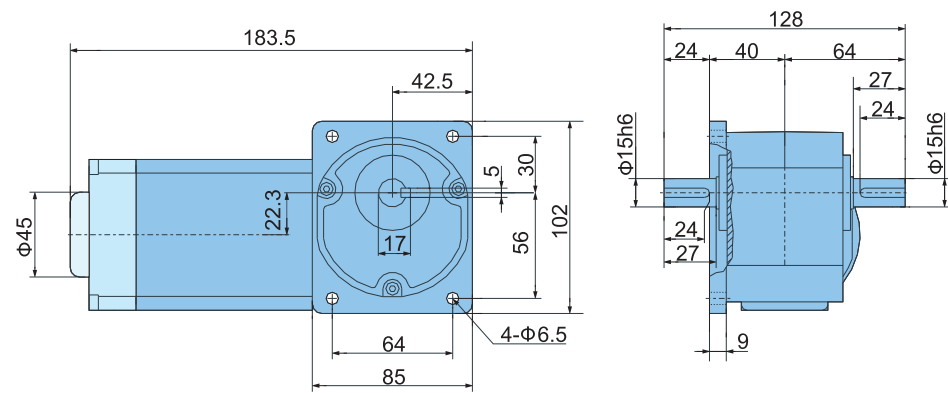
Flange mounting 法蘭安裝  
Variable speed motor 調速電機 (防護等級: IP20)

圖A-17 HF15 (5) T- (5~240) K+25RC2-N



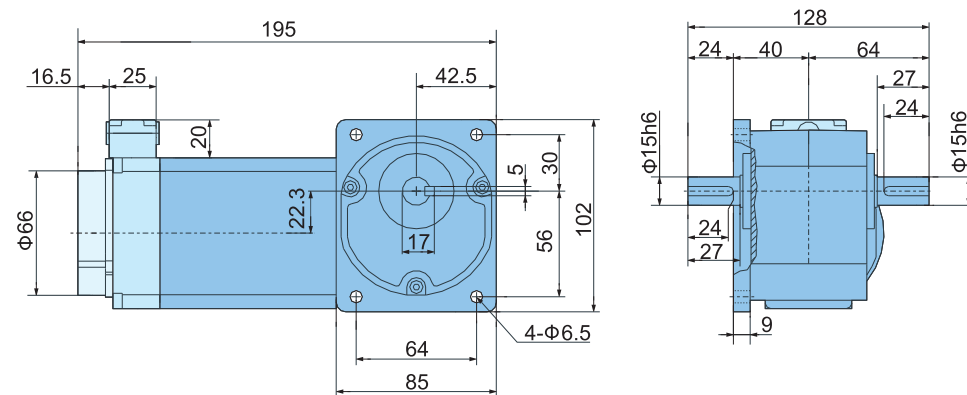
Flange mounting 法蘭安裝  
Variable speed motor 調速電機 (防護等級: IP20)

圖A-18 HF15 (5) T- (5~240) K+25WC2-N



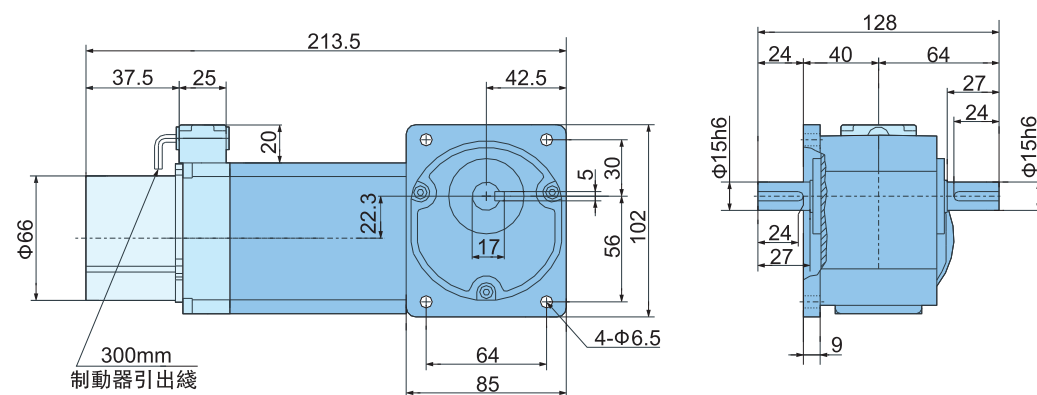
Flange mounting 法蘭安裝  
Variable speed motor 調速電機 (防護等級: IP65)

圖A-19 HF15 (5) T- (5~240) K+25RC2-T



Flange mounting 法蘭安裝 (防護等級: IP65)  
NO variable speed brake motor 非調速剎車電機

圖A-20 HF15 (5) T- (5~240) K+25WMC2-T



40W  
1-PHASE/3-PHASE  
單相/三相



HL15 (5) T- (5~240) K  
+40RC2-T



HF15 (5) T- (5~240) K  
+40RC2-T

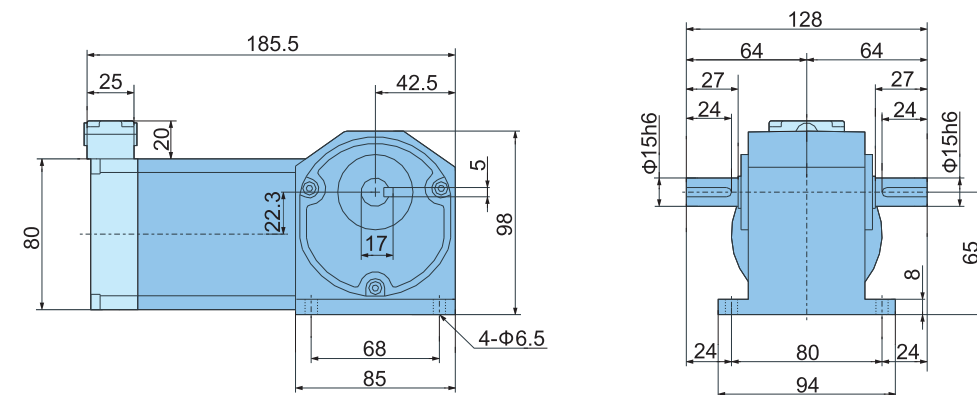
| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Frequency<br>頻率 (Hz) | Rated Currment<br>額定電流 (A) | Rated Speed<br>額定轉速 (rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|----------------------------|----------------------------|---------------------------|--------------------------|--------------------------|
| 40W         | 380                     | 50                         | 0.13                       | 1300                      | B                        | 20 65                    |
|             | 220                     | 50                         | 0.32                       | 1370                      |                          |                          |

| Power<br>功率 | Shaft Dim<br>軸徑 | Overall Dimensions<br>外形尺寸圖 |      | Ratio<br>減速比 | Output Speed<br>輸出轉速 (rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------|-----------------------------|------|--------------|----------------------------|---------------------------|---------|----------------------------|-----|
|             |                 | HL                          | HF   |              |                            | N · m                     | kgf · m | N                          | kgf |
| 40W         | Φ15(5)          | A-21                        | A-26 | 1/5          | 300                        | 1.16                      | 0.12    | 266                        | 27  |
|             |                 |                             |      | 1/10         | 150                        | 1.76                      | 0.18    | 343                        | 35  |
|             |                 |                             |      | 1/15         | 100                        | 2.65                      | 0.27    | 441                        | 45  |
|             |                 |                             |      | 1/20         | 75                         | 3.53                      | 0.36    | 539                        | 55  |
|             |                 | A-22                        | A-27 | 1/30         | 50                         | 5.29                      | 0.54    | 686                        | 70  |
|             |                 |                             |      | 1/40         | 37.5                       | 7.06                      | 0.72    | 784                        | 80  |
|             |                 |                             |      | 1/50         | 30                         | 8.82                      | 0.90    | 882                        | 90  |
|             |                 |                             |      | 1/60         | 25                         | 10.8                      | 1.1     | 882                        | 90  |
|             |                 | A-23                        | A-28 | 1/80         | 18.8                       | 13.7                      | 1.4     | 980                        | 100 |
|             |                 |                             |      | 1/100        | 15                         | 16.7                      | 1.7     | 980                        | 100 |
|             |                 |                             |      | 1/120        | 12.5                       | 20.6                      | 2.1     | 1080                       | 110 |
|             |                 |                             |      | 1/160        | 9.4                        | 26.5                      | 2.7     | 1080                       | 110 |
|             |                 | A-24                        | A-29 | 1/200        | 7.5                        | 33.3                      | 3.4     | 1080                       | 110 |
|             |                 |                             |      | 1/240        | 6.3                        | 40.2                      | 4.1     | 1080                       | 110 |
|             |                 | A-25                        | A-30 |              |                            |                           |         |                            |     |
|             |                 |                             |      |              |                            |                           |         |                            |     |

Note: 1. Output O.H.L is the center of output shaft. (注) 1. 容許O.H.L為輸出軸中央的位置。  
2. Output speed = motor/reduction ration. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。

Foot mounting 底腳安裝  
NO variable speed motor 非調速電機 (防護等級: IP65)

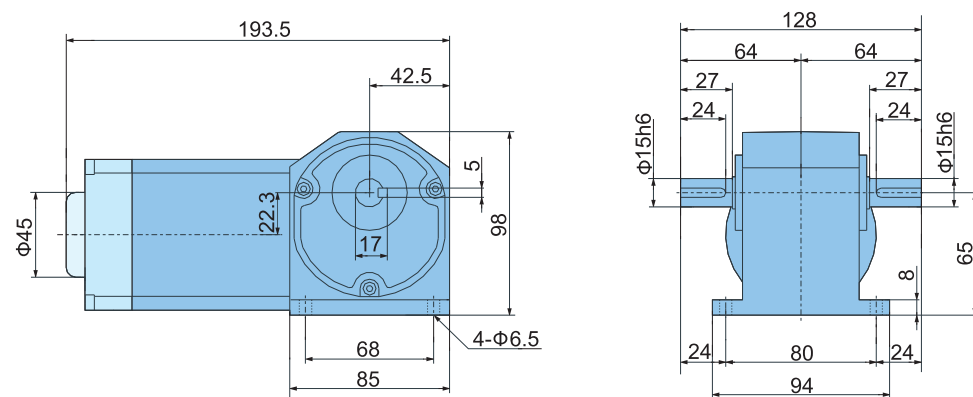
圖A-21 HL15 (5) T- (5~240) K+40WC2-T





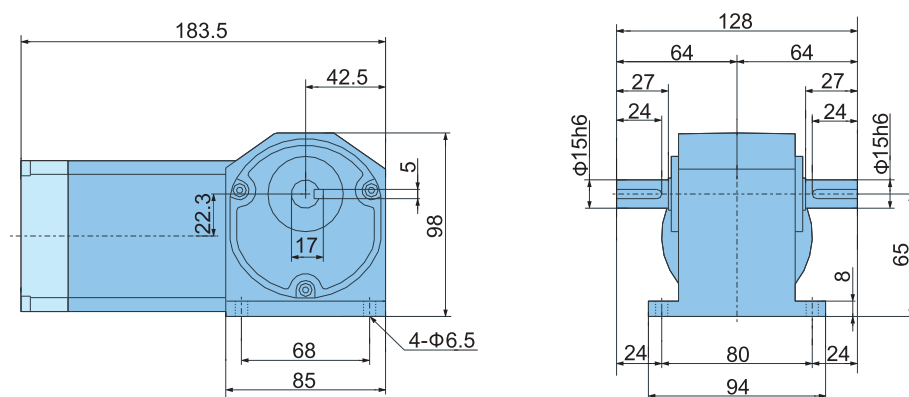
Foot mounting 底腳安裝  
Variable speed motor 調速電機 (防護等級: IP20)

圖A-22 HL15 (5) T- (5~240) K+40RC2-N



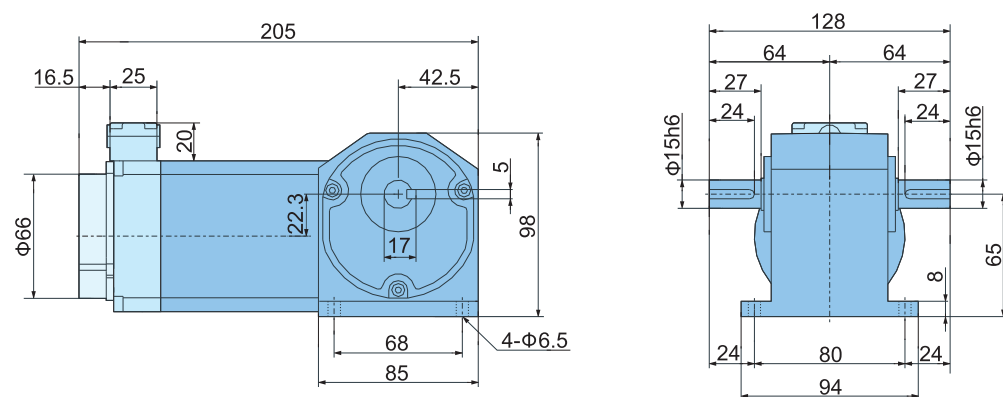
Foot mounting 底腳安裝  
NO variable speed motor 非調速電機 (防護等級: IP20)

圖A-23 HL15 (5) T- (5~240) K+40RC2-N



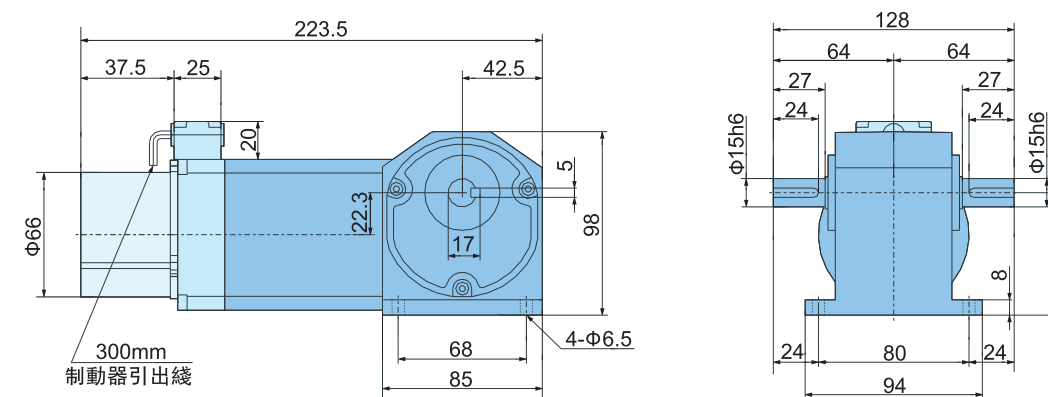
Foot mounting 底腳安裝  
Variable speed motor 調速電機 (防護等級: IP65)

圖A-24 HL15 (5) T- (5~240) K+40RC2-T



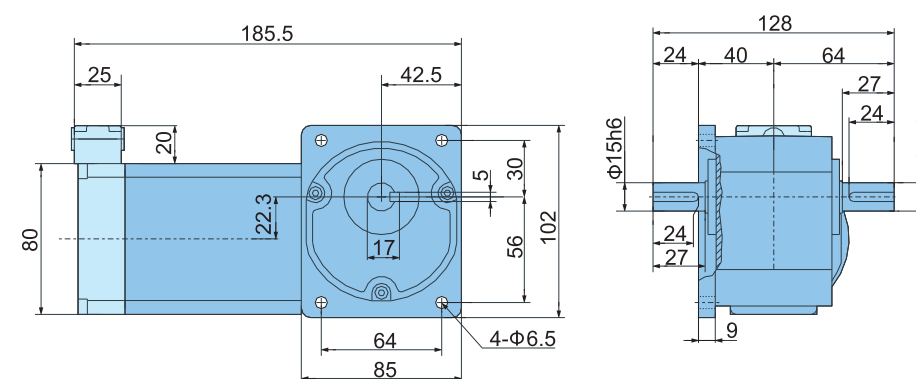
Foot mounting 底腳安裝 (防護等級: IP65)  
NO variable speed brake motor 非調速剎車電機

圖A-25 HL15 (5) T- (5~240) K+40WMC2-T



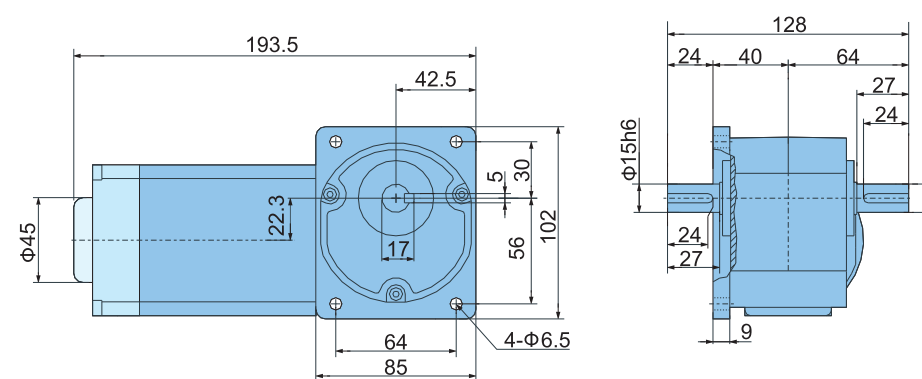
Flange mounting 法蘭安裝  
NO variable speed motor 非調速電機 (防護等級: IP65)

圖A-26 HF15 (5) T- (5~240) K+40WC2-T



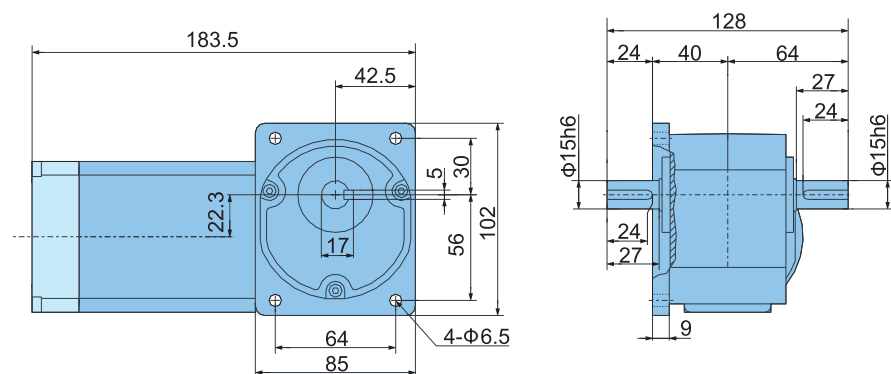
Flange mounting 法蘭安裝  
Variable speed motor 調速電機 (防護等級: IP20)

圖A-27 HF15 (5) T- (5~240) K+40RC2-N



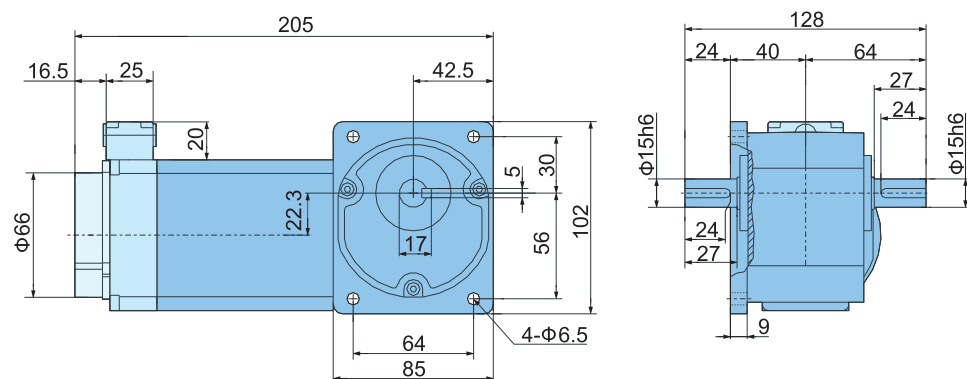
Flange mounting 法蘭安裝  
Variable speed motor 調速電機 (防護等級: IP20)

圖A-28 HF15 (5) T- (5~240) K+40WC2-N



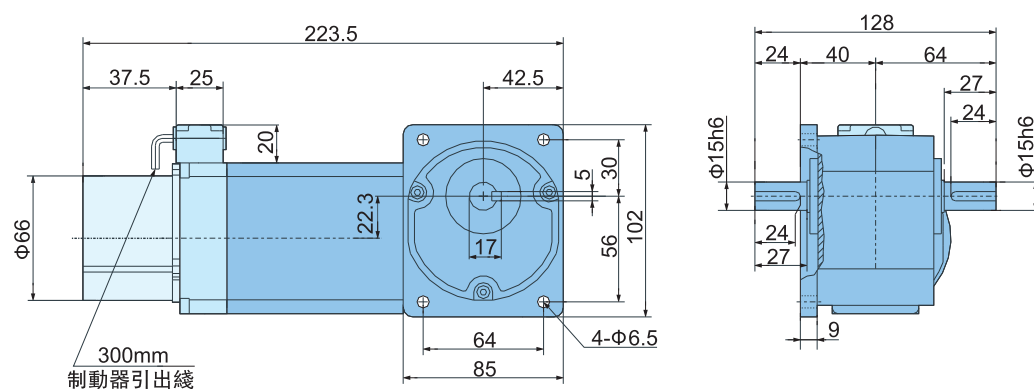
Flange mounting 法蘭安裝  
Variable speed motor 調速電機 (防護等級: IP65)

圖A-29 HF15 (5) T- (5~240) K+40RC2-T



Flange mounting 法蘭安裝 (防護等級: IP65)  
NO variable speed brake motor 非調速剎車電機

圖A-30 HF15 (5) T- (5~240) K+40WMC2-T



40W  
1-PHASE/3-PHASE  
單相/三相



HL18 (6) T- (5~240) K  
+40RC2-T



HF18 (6) T- (5~240) K  
+40RC2-T

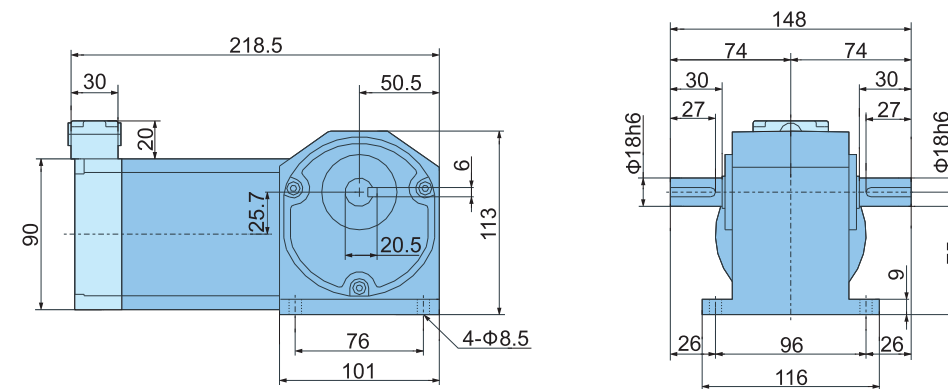
| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Frequency<br>頻率 (Hz) | Rated Currment<br>額定電流 (A) | Rated Speed<br>額定轉速 (rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|----------------------------|----------------------------|---------------------------|--------------------------|--------------------------|
| 40W         | 380                     | 50                         | 0.13                       | 1300                      | B                        | 20 65                    |
|             | 220                     | 50                         | 0.32                       | 1370                      |                          |                          |

| Power<br>功率 | Shaft Dim<br>軸徑 | Overall Dimensions<br>外形尺寸圖 |      | Ratio<br>減速比 | Output Speed<br>輸出轉速 (rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------|-----------------------------|------|--------------|----------------------------|---------------------------|---------|----------------------------|-----|
|             |                 | HL                          | HF   |              |                            | N · m                     | kgf · m | N                          | kgf |
| 40W         | Φ18(6)          | A-31                        | A-36 | 1/5          | 300                        | 1.16                      | 0.12    | 266                        | 27  |
|             |                 |                             |      | 1/10         | 150                        | 1.76                      | 0.18    | 343                        | 35  |
|             |                 |                             |      | 1/15         | 100                        | 2.65                      | 0.27    | 441                        | 45  |
|             |                 |                             |      | 1/20         | 75                         | 3.53                      | 0.36    | 539                        | 55  |
|             |                 | A-32                        | A-37 | 1/30         | 50                         | 5.29                      | 0.54    | 686                        | 70  |
|             |                 |                             |      | 1/40         | 37.5                       | 7.06                      | 0.72    | 784                        | 80  |
|             |                 |                             |      | 1/50         | 30                         | 8.82                      | 0.90    | 882                        | 90  |
|             |                 |                             |      | 1/60         | 25                         | 10.8                      | 1.1     | 882                        | 90  |
|             |                 | A-33                        | A-38 | 1/80         | 18.8                       | 13.7                      | 1.4     | 980                        | 100 |
|             |                 |                             |      | 1/100        | 15                         | 16.7                      | 1.7     | 980                        | 100 |
|             |                 |                             |      | 1/120        | 12.5                       | 20.6                      | 2.1     | 1080                       | 110 |
|             |                 |                             |      | 1/160        | 9.4                        | 26.5                      | 2.7     | 1370                       | 140 |
|             |                 | A-34                        | A-39 | 1/200        | 7.5                        | 33.3                      | 3.4     | 1370                       | 140 |
|             |                 |                             |      | 1/240        | 6.3                        | 40.2                      | 4.1     | 1370                       | 140 |
|             |                 | A-35                        | A-40 |              |                            |                           |         |                            |     |
|             |                 |                             |      |              |                            |                           |         |                            |     |

Note: 1. Output O.H.L is the center of output shaft. (注) 1. 容許O.H.L為輸出軸中央的位置。  
2. Output speed = motor/reduction ration. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。

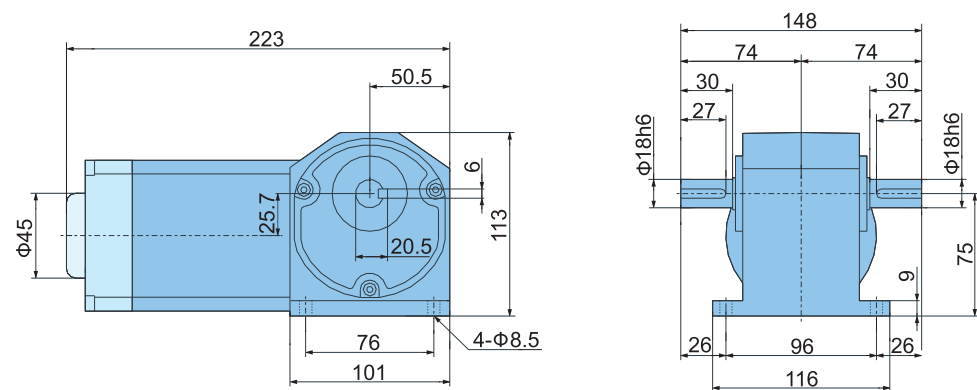
Foot mounting 底腳安裝  
NO variable speed motor 非調速電機 (防護等級: IP65)

圖A-31 HL18 (6) T- (5~240) K+40WC2-T



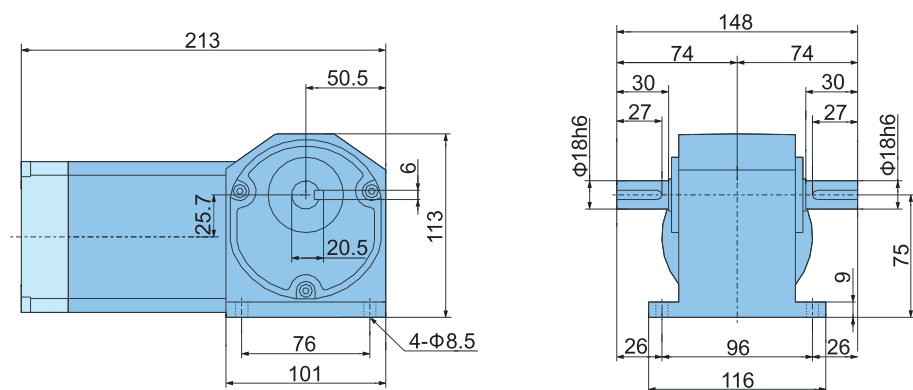
Foot mounting 底腳安裝  
Variable speed motor 調速電機 (防護等級: IP20)

圖A-32 HL18 (6) T- (5~240) K+40RC2-N



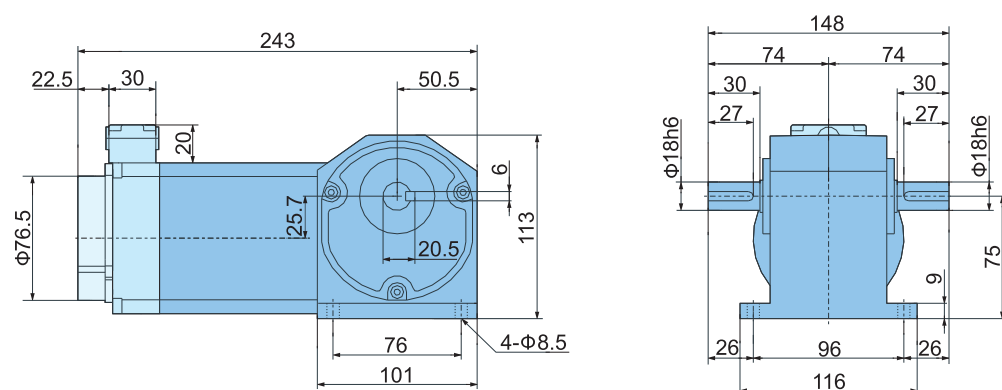
Foot mounting 底腳安裝  
NO variable speed motor 非調速電機 (防護等級: IP20)

圖A-33 HL18 (6) T- (5~240) K+40RC2-N



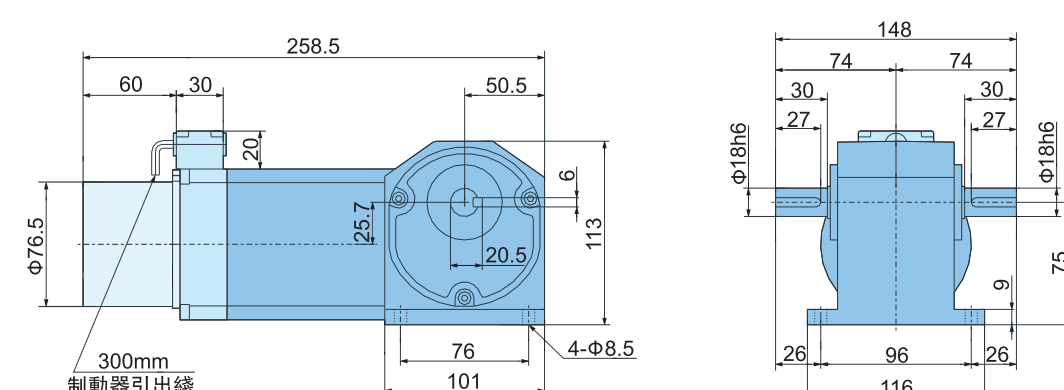
Foot mounting 底腳安裝  
Variable speed motor 調速電機 (防護等級: IP65)

圖A-34 HL18 (6) T- (5~240) K+40RC2-T



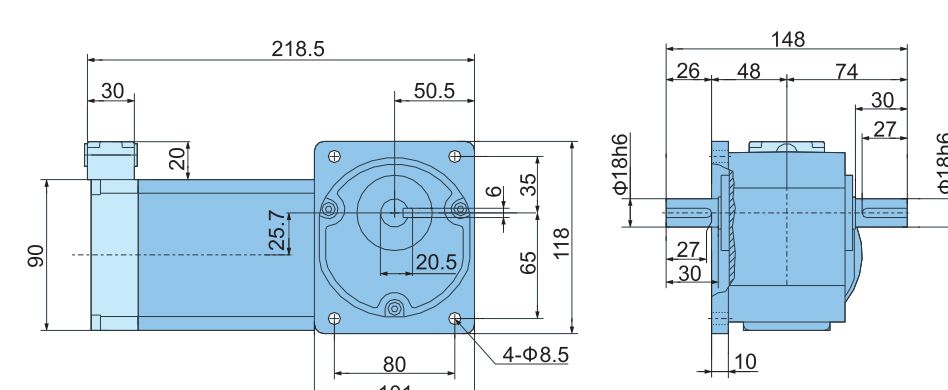
Foot mounting 底腳安裝 (防護等級: IP65)  
Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機

圖A-35 HL18 (6) T- (5~240) K+40WMC2-T



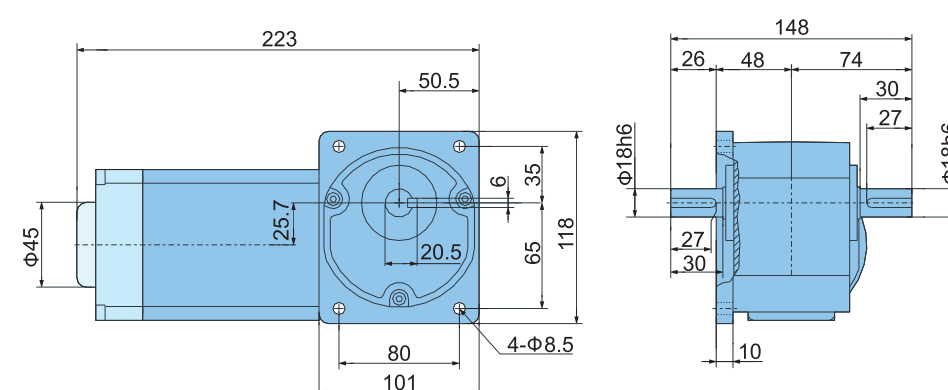
Flange mounting 法蘭安裝  
NO variable speed motor 非調速電機 (防護等級: IP65)

圖A-36 HF18 (6) T- (5~240) K+40WC2-T



Flange mounting 法蘭安裝  
Variable speed motor 調速電機 (防護等級: IP20)

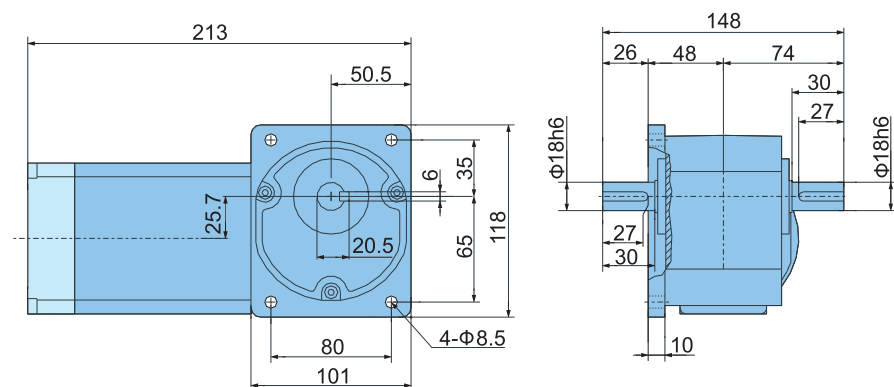
圖A-37 HF18 (6) T- (5~240) K+40RC2-N





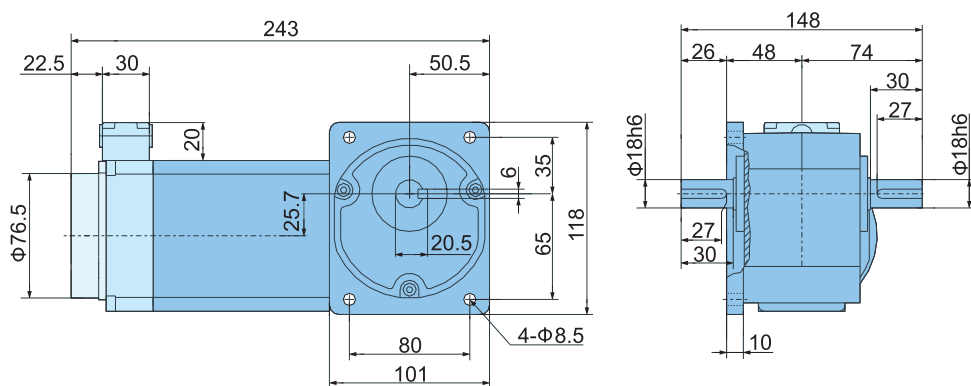
Foot mounting 底腳安裝  
NO variable speed motor 非調速電機 (防護等級: IP20)

圖A-38 HF18 (6) T- (5~240) K+40WC2-N



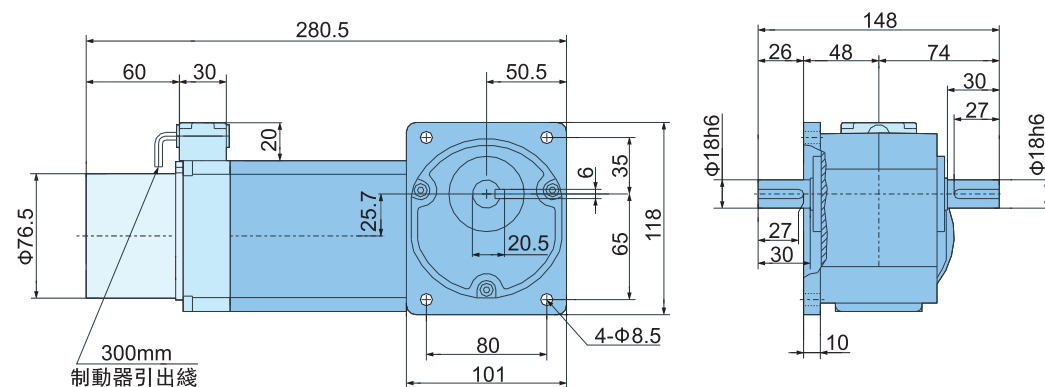
Flange mounting 法蘭安裝  
Variable speed motor 調速電機 (防護等級: IP65)

圖A-39 HF18 (6) T- (5~240) K+40RC2-T



Flange mounting 法蘭安裝 (防護等級: IP65)  
NO variable speed brake motor/ Variable speed brake motor 非調速剎車電機/調速剎車電機

圖A-40 HF18 (6) T- (5~240) K+40WMC2-T



60W  
1-PHASE/3-PHASE  
單相/三相



HL18 (6) T- (5~240) K+60RC2-N



HF18 (6) T- (5~240) K+60RC2-N

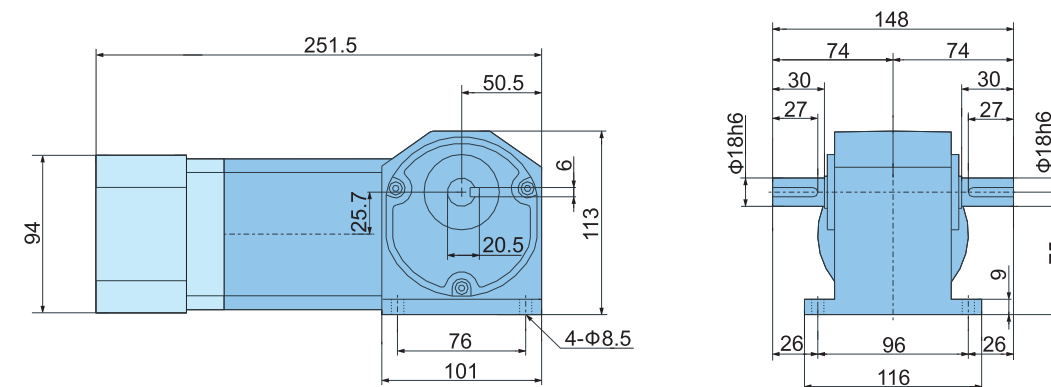
| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Frequency<br>頻率 (Hz) | Rated Currment<br>額定電流 (A) | Rated Speed<br>額定轉速 (rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|----------------------------|----------------------------|---------------------------|--------------------------|--------------------------|
| 60W         | 380                     | 50                         | 0.17                       | 1300                      | B                        | 20 65                    |
|             | 220                     | 50                         | 0.42                       | 1390                      |                          |                          |

| Power<br>功率 | Shaft Dim<br>軸徑 | Overall Dimensions<br>外形尺寸圖 |      | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------|-----------------------------|------|--------------|---------------------------|---------------------------|---------|----------------------------|-----|
|             |                 | HL                          | HF   |              |                           | N · m                     | kgf · m | N                          | kgf |
| 60W         | Φ18(6)          | A-41                        | A-43 | 1/5          | 300                       | 1.82                      | 0.18    | 266                        | 27  |
|             |                 |                             |      | 1/10         | 150                       | 2.74                      | 0.28    | 343                        | 35  |
|             |                 |                             |      | 1/15         | 100                       | 4.12                      | 0.42    | 441                        | 45  |
|             |                 |                             |      | 1/20         | 75                        | 5.49                      | 0.56    | 539                        | 55  |
|             |                 |                             |      | 1/30         | 50                        | 8.33                      | 0.85    | 686                        | 70  |
|             |                 |                             |      | 1/40         | 37.5                      | 10.8                      | 1.1     | 784                        | 80  |
|             |                 |                             |      | 1/50         | 30                        | 13.7                      | 1.4     | 882                        | 90  |
|             |                 |                             |      | 1/60         | 25                        | 16.7                      | 1.7     | 882                        | 90  |
|             |                 |                             | A-44 | 1/80         | 18.8                      | 20.6                      | 2.1     | 1270                       | 130 |
|             |                 |                             |      | 1/100        | 15                        | 26.5                      | 2.7     | 1270                       | 130 |
|             |                 |                             |      | 1/120        | 12.5                      | 31.4                      | 3.2     | 1370                       | 140 |
|             |                 |                             |      | 1/160        | 9.4                       | 42.1                      | 4.3     | 1370                       | 140 |
|             |                 |                             | A-42 | 1/200        | 7.5                       | 52.9                      | 5.4     | 1370                       | 140 |
|             |                 |                             |      | ※ 1/240      | 6.3                       | 53.9                      | 5.5     | 1370                       | 140 |

Note: 1. Output O.H.L is the center of output shaft. (注) 1. 容許O.H.L為輸出軸中央的位置。  
2. Output speed = motor/reduction ration. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ Marked as torque limited. 3. ※ 標記為轉矩力受限機型。

Foot mounting 底腳安裝  
Variable speed motor/NO variable speed motor 調速電機/非調速電機 (防護等級: IP20)

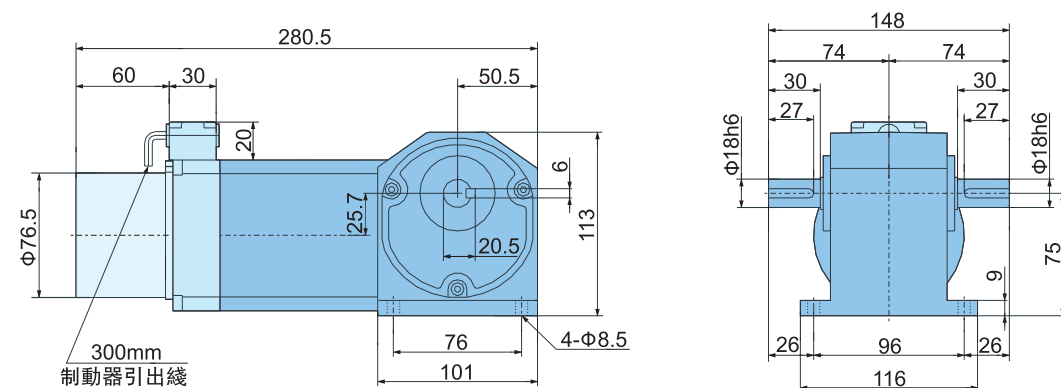
圖A-41 HL18 (6) T- (5~240) K+60WC2F-N



Foot mounting 底脚安裝 (防護等級: IP65)

NO variable speed brake motor/Variable speed brake motor 非調速剎車電機/調速剎車電機

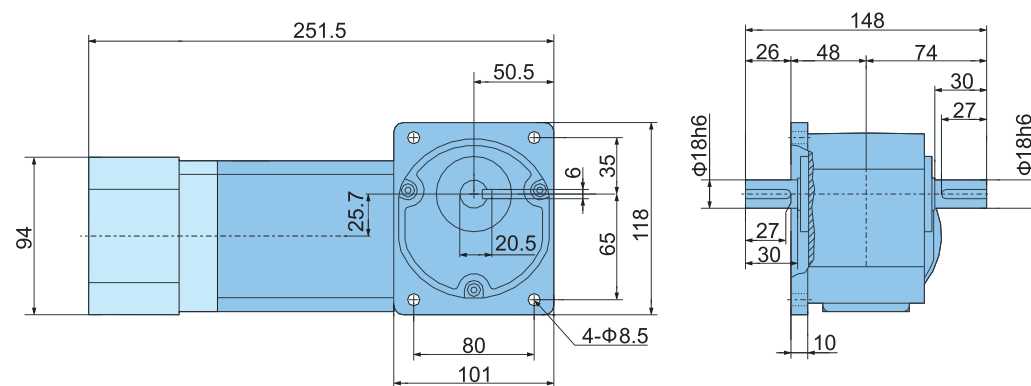
圖A-42 HL18 (6) T- (5~240) K+60WMC2-T



Flange mounting 法蘭安裝

Variable speed motor/NO variable speed motor 調速電機/非調速電機 (防護等級: IP20)

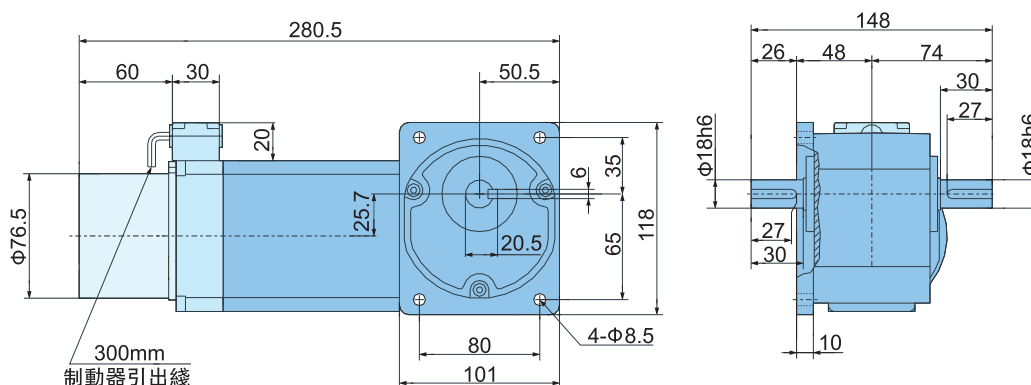
圖A-43 HF18 (6) T- (5~240) K+60WC2F-T



Flange mounting 法蘭安裝 (防護等級: IP65)

Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機

圖A-44 HF18 (6) T- (5~240) K+60WMC2-T



90W

1-PHASE/3-PHASE

單相/三相



HL18 (6) T- (5~240) K  
+90WMC2-T



HF18 (6) T- (5~240) K  
+90WMC2-T

| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Frequency<br>頻率 (Hz) | Rated Currment<br>額定電流 (A) | Rated Speed<br>額定轉速 (rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|----------------------------|----------------------------|---------------------------|--------------------------|--------------------------|
| 90W         | 380                     | 50                         | 0.26                       | 1300                      | B                        | 20 65                    |
|             | 220                     | 50                         | 0.55                       | 1350                      |                          |                          |

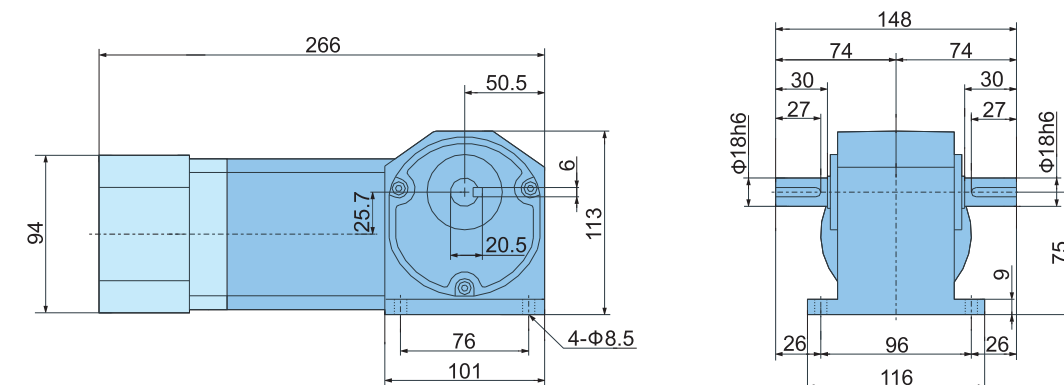
| Power<br>功率 | Shaft Dim<br>軸徑 | Overall Dimensions<br>外形尺寸圖 |      | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------|-----------------------------|------|--------------|---------------------------|---------------------------|---------|----------------------------|-----|
|             |                 | HL                          | HF   |              |                           | N · m                     | kgf · m | N                          | kgf |
| 90W         | Φ18(6)          | A-45                        | A-47 | 1/5          | 300                       | 2.75                      | 0.28    | 330                        | 33  |
|             |                 |                             |      | 1/10         | 150                       | 4.12                      | 0.42    | 441                        | 45  |
|             |                 |                             |      | 1/15         | 100                       | 6.17                      | 0.63    | 588                        | 60  |
|             |                 |                             |      | 1/20         | 75                        | 8.33                      | 0.85    | 735                        | 75  |
|             |                 |                             |      | 1/30         | 50                        | 12.7                      | 1.3     | 980                        | 100 |
|             |                 |                             |      | 1/40         | 37.5                      | 16.7                      | 1.7     | 1080                       | 110 |
|             |                 |                             |      | 1/50         | 30                        | 20.6                      | 2.1     | 1180                       | 120 |
|             |                 |                             |      | 1/60         | 25                        | 24.5                      | 2.5     | 1180                       | 120 |
|             |                 | A-48                        | A-46 | 1/80         | 18.8                      | 31.4                      | 3.2     | 1270                       | 130 |
|             |                 |                             |      | 1/100        | 15                        | 39.2                      | 4.0     | 1270                       | 130 |
|             |                 |                             |      | 1/120        | 12.5                      | 47.0                      | 4.8     | 1370                       | 140 |
|             |                 |                             |      | ※ 1/160      | 9.4                       | 53.9                      | 5.5     | 1370                       | 140 |
|             |                 |                             |      | ※ 1/200      | 7.5                       | 53.9                      | 5.5     | 1370                       | 140 |
|             |                 |                             |      | ※ 1/240      | 6.3                       | 53.9                      | 5.5     | 1370                       | 140 |

Note: 1. Output O.H.L is the center of output shaft. (注) 1. 容許O.H.L為輸出軸中央的位置。  
2. Output speed = motor/reduction ration. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ Marked as torque limited. 3. ※ 標記為轉矩力受限機型。

Foot mounting 底脚安裝

Variable speed motor/NO variable speed motor 調速電機/非調速電機 (防護等級: IP20)

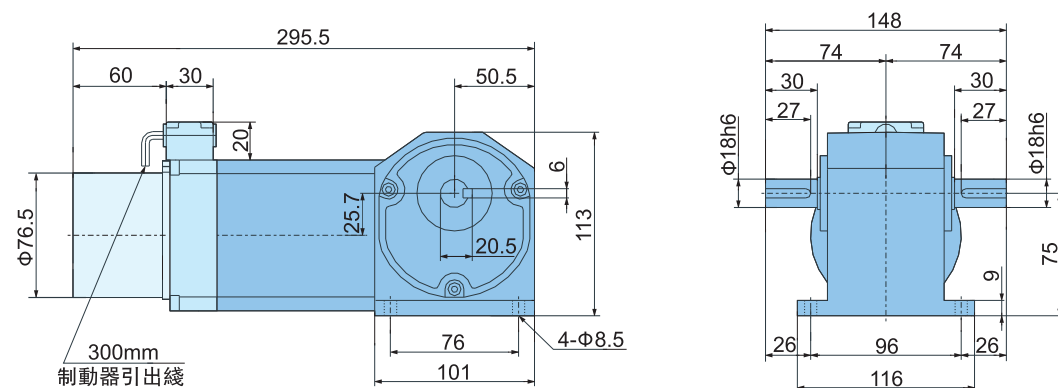
圖A-45 HL18 (6) T- (5~240) K+90WC2F-N



Foot mounting 底脚安裝 (防護等級: IP65)

NO variable speed brake motor/Variable speed brake motor 非調速剎車電機/調速剎車電機

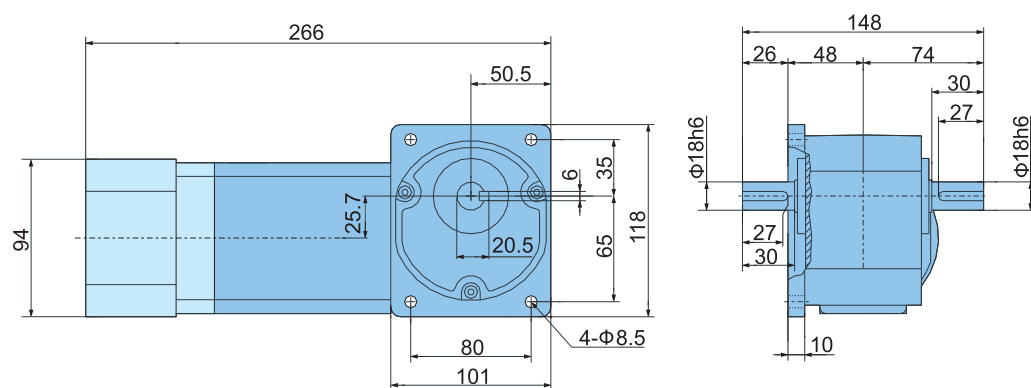
圖A-46 HL18 (6) T- (5~240) K+90WMC2-T



Flange mounting 法蘭安裝

Variable speed motor/NO variable speed motor 調速電機/非調速電機 (防護等級: IP20)

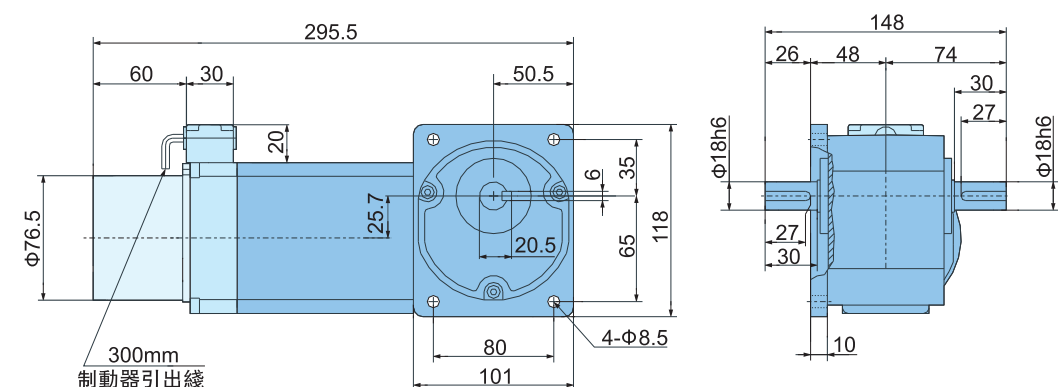
圖A-47 HF18 (6) T- (5~240) K+90WC2F-N



Flange mounting 法蘭安裝 (防護等級: IP65)

Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機

圖A-48 HF18 (6) T- (5~240) K+90WMC2-T



120W

1-PHASE/3-PHASE

單相/三相



HL18 (6) T- (5~200) K  
+120WC2F-N



HF18 (6) T- (5~200) K  
+120WC2F-N

| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Frequency<br>頻率 (Hz) | Rated Currment<br>額定電流 (A) | Rated Speed<br>額定轉速 (rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|----------------------------|----------------------------|---------------------------|--------------------------|--------------------------|
| 120W        | 380                     | 50                         | 0.35                       | 1300                      | B                        | 20 65                    |
|             | 220                     | 50                         | 0.80                       | 1300                      |                          |                          |

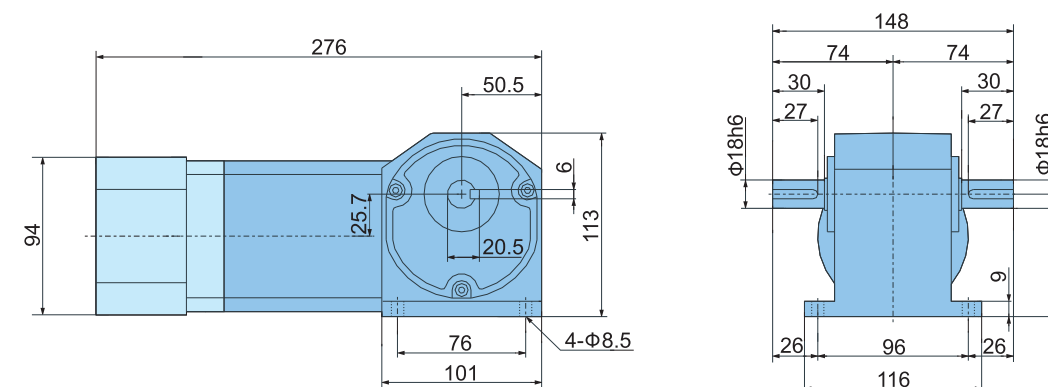
| Power<br>功率 | Shaft Dim<br>軸徑 | Overall Dimensions<br>外形尺寸圖 |      | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------|-----------------------------|------|--------------|---------------------------|---------------------------|---------|----------------------------|-----|
|             |                 | HL                          | HF   |              |                           | N · m                     | kgf · m | N                          | kgf |
| 120W        | Φ18(6)          | A-49                        | A-51 | 1/5          | 300                       | 3.67                      | 0.37    | 330                        | 33  |
|             |                 |                             |      | 1/10         | 150                       | 5.5                       | 0.56    | 441                        | 45  |
|             |                 |                             |      | 1/15         | 100                       | 8.24                      | 0.84    | 588                        | 60  |
|             |                 |                             |      | 1/20         | 75                        | 11.13                     | 1.14    | 735                        | 75  |
|             |                 |                             |      | 1/30         | 50                        | 16.96                     | 1.73    | 980                        | 100 |
|             |                 |                             |      | 1/40         | 37.5                      | 22.33                     | 2.78    | 1080                       | 110 |
|             |                 |                             |      | 1/50         | 30                        | 27.52                     | 2.81    | 1180                       | 120 |
|             |                 |                             |      | 1/60         | 25                        | 32.76                     | 3.34    | 1180                       | 120 |
|             |                 |                             | A-52 | 1/80         | 18.8                      | 41.98                     | 4.28    | 1270                       | 130 |
|             |                 |                             |      | 1/100        | 15                        | 52.39                     | 5.34    | 1270                       | 130 |
|             |                 |                             |      | ※ 1/120      | 12.5                      | 53.9                      | 5.5     | 1370                       | 140 |
|             |                 |                             |      | ※ 1/160      | 9.4                       | 53.9                      | 5.5     | 1370                       | 140 |
|             |                 |                             |      | ※ 1/200      | 7.5                       | 53.9                      | 5.5     | 1370                       | 140 |
|             |                 | A-50                        |      |              |                           |                           |         |                            |     |
|             |                 |                             |      |              |                           |                           |         |                            |     |

Note: 1. Output O.H.L is the center of output shaft. (注) 1. 容許O.H.L為輸出軸中央的位置。  
2. Output speed = motor/reduction ration. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ Marked as torque limited. 3. ※ 標記為轉矩力受限機型。

Foot mounting 底脚安裝

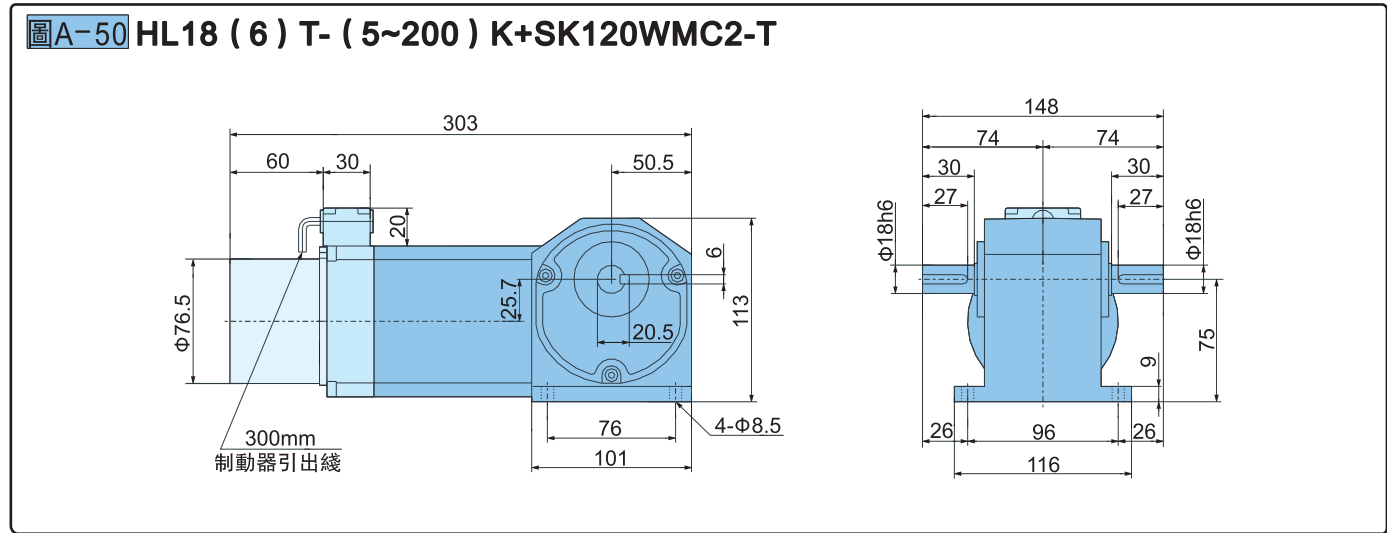
Variable speed motor/NO variable speed motor 調速電機/非調速電機 (防護等級: IP20)

圖A-49 HL18 (6) T- (5~200) K+120WC2F-N

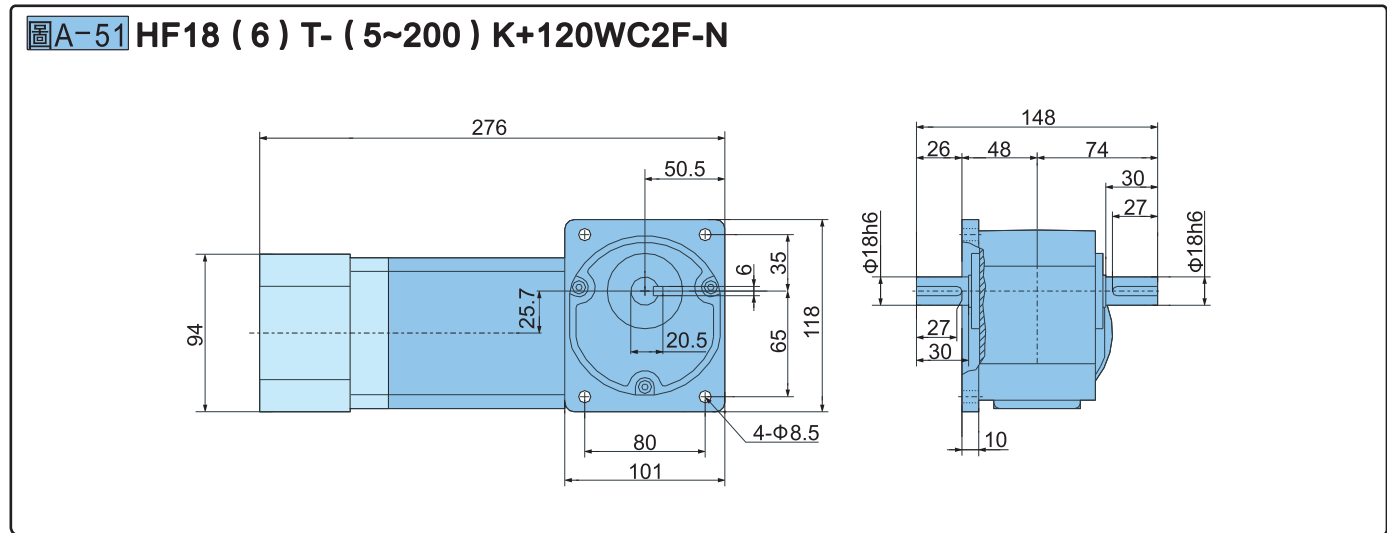




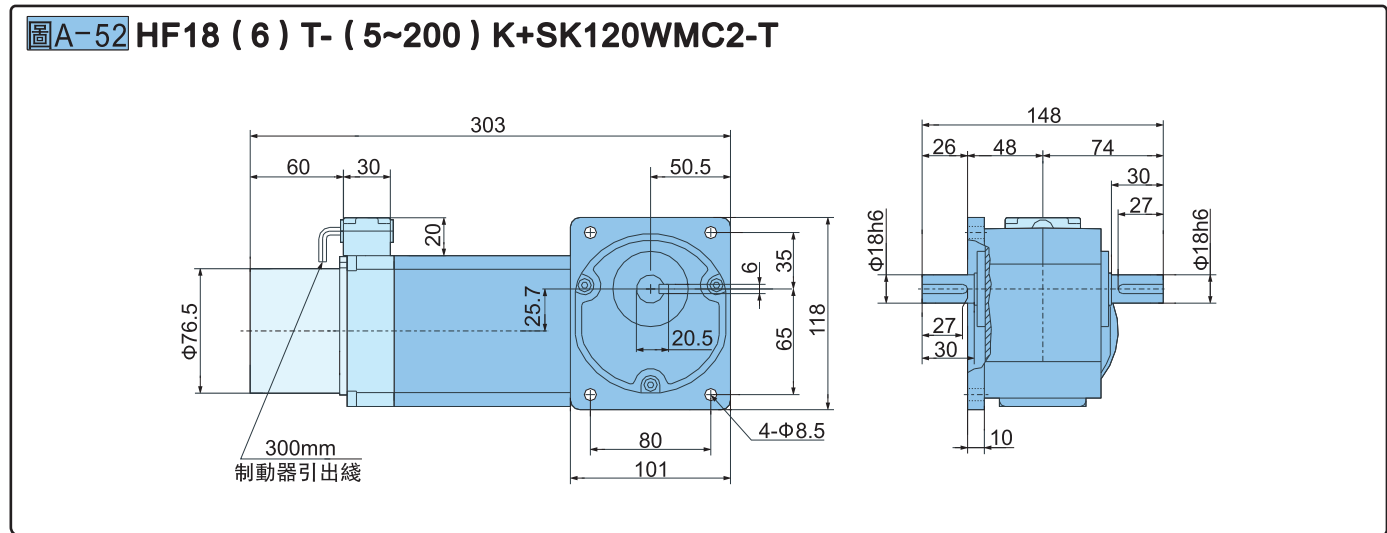
Foot mounting 底脚安裝 (防護等級: IP65)  
NO variable speed brake motor/Variable speed brake motor 非調速剎車電機/調速剎車電機



Flange mounting 法蘭安裝  
Variable speed motor/NO variable speed motor 調速電機/非調速電機 (防護等級: IP20)



Flange mounting 法蘭安裝 (防護等級: IP65)  
Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機



140W  
1-PHASE/3-PHASE  
單相/三相



HL18 (6) T- (5~160) K  
+140WC2F-N



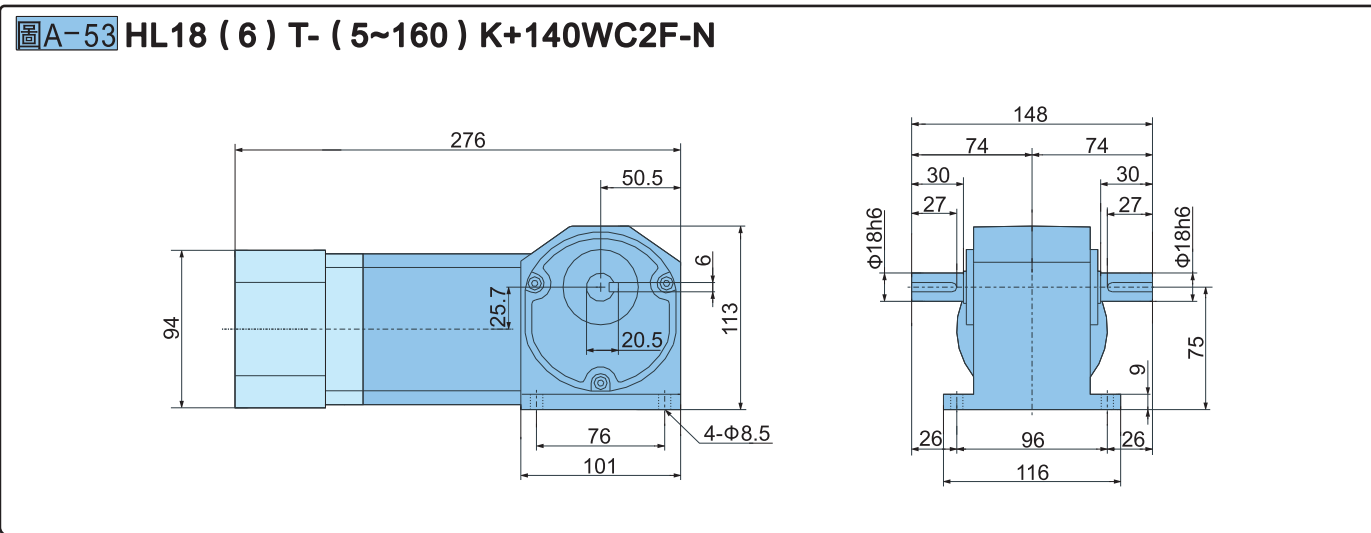
HF18 (6) T- (5~160) K  
+140WC2F-N

| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Frequency<br>頻率 (Hz) | Rated Currment<br>額定電流 (A) | Rated Speed<br>額定轉速 (rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|----------------------------|----------------------------|---------------------------|--------------------------|--------------------------|
| 140W        | 380                     | 50                         | 0.55                       | 1300                      | B                        | 20 65                    |
|             | 220                     | 50                         | 1.13                       | 1300                      |                          |                          |

| Power<br>功 率 | Shaft Dim<br>軸 徑 | Overall Dimensions<br>外形尺寸圖 |      | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |  |  |
|--------------|------------------|-----------------------------|------|--------------|---------------------------|---------------------------|---------|----------------------------|-----|--|--|
|              |                  | HL                          | HF   |              |                           | N · m                     | kgf · m | N                          | kgf |  |  |
| 140W         | Φ 18(6)          | A-53                        | A-55 | 1/5          | 300                       | 3.6                       | 0.37    | 330                        | 33  |  |  |
|              |                  |                             |      | 1/10         | 150                       | 5.5                       | 0.56    | 441                        | 45  |  |  |
|              |                  |                             |      | 1/15         | 100                       | 8.24                      | 0.84    | 588                        | 60  |  |  |
|              |                  |                             |      | 1/20         | 75                        | 11.13                     | 1.14    | 735                        | 75  |  |  |
|              |                  |                             |      | 1/30         | 50                        | 16.96                     | 1.73    | 980                        | 100 |  |  |
|              |                  |                             |      | 1/40         | 37.5                      | 22.33                     | 2.78    | 1080                       | 110 |  |  |
|              |                  | A-54                        | A-56 | 1/50         | 30                        | 27.52                     | 2.81    | 1180                       | 120 |  |  |
|              |                  |                             |      | 1/60         | 25                        | 32.76                     | 3.34    | 1180                       | 120 |  |  |
|              |                  |                             |      | 1/80         | 18.8                      | 41.98                     | 4.28    | 1270                       | 130 |  |  |
|              |                  |                             |      | ※ 1/100      | 15                        | 52.39                     | 5.34    | 1270                       | 130 |  |  |
|              |                  |                             |      | ※ 1/120      | 12.5                      | 53.9                      | 5.5     | 1370                       | 140 |  |  |
|              |                  |                             |      | ※ 1/160      | 9.4                       | 53.9                      | 5.5     | 1370                       | 140 |  |  |
|              |                  |                             |      | A-54         |                           |                           |         |                            |     |  |  |
|              |                  |                             |      |              |                           |                           |         |                            |     |  |  |

Note: 1. Output O.H.L is the center of output shaft. (注) 1. 容許O.H.L為輸出軸中央的位置。  
2. Output speed = motor/reduction ration. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ Marked as torque limited. 3. ※ 標記為轉矩力受限機型。

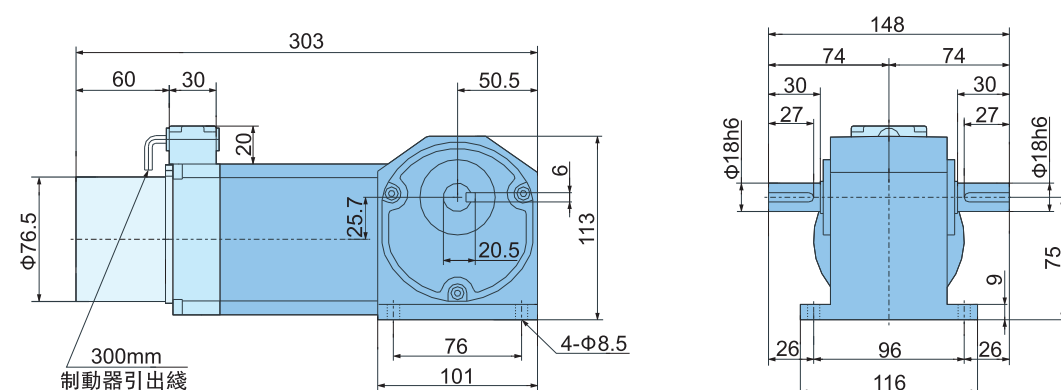
Foot mounting 底脚安裝  
Variable speed motor/NO variable speed motor 調速電機/非調速電機 (防護等級: IP20)



Foot mounting 底腳安裝 (防護等級: IP65)

NO variable speed brake motor/Variable speed brake motor 非調速剎車電機/調速剎車電機

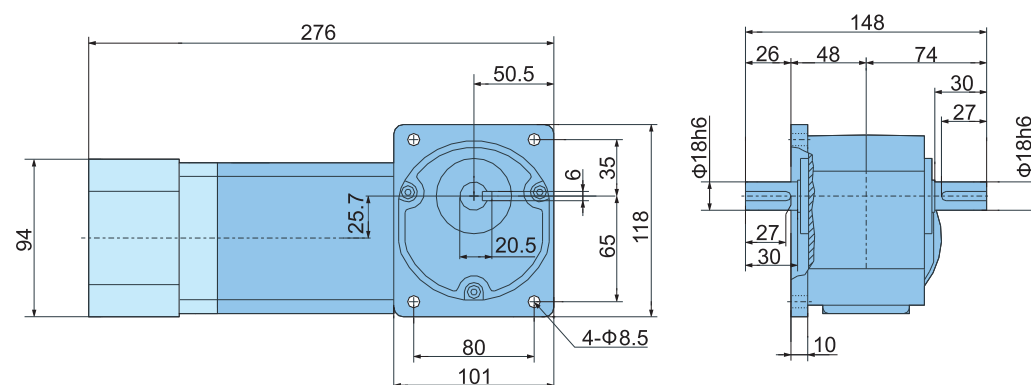
圖A-54 HL18 (6) T- (5~160) K+SK140WMC2-T



Flange mounting 法蘭安裝

Variable speed motor/NO variable speed motor 調速電機/非調速電機 (防護等級: IP20)

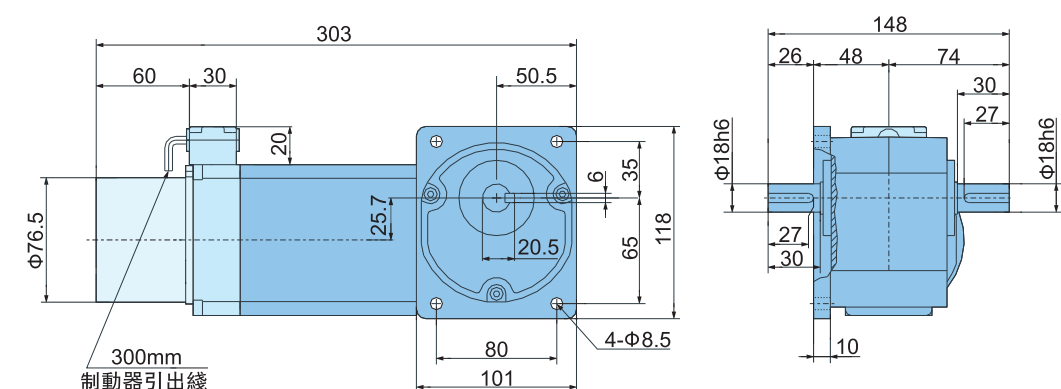
圖A-55 HF18 (6)T- (5~160) K+140WC2F-N



Flange mounting 法蘭安裝 (防護等級: IP65)

Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機

圖A-56 HF18 (6) T- (5~160) K+SK140WMC2-T



# F2 Series

## HYPOID GEAR REDUCTION MOTOR

### F2系列小型準雙曲面齒輪減速電機

長方同心法蘭型

15W~140W

- Description of models . . . . . 39  
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特性表、外形圖



共同引領世界  
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DESCRIPTION OF MODEL

型號說明

F2S12(4)N-25K+40R-C2F-TA1-TB-W-IP

1234567891011121314

|    |                                                   |                                                                                                                                                        |                                                                             |
|----|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1  | Type code 機型系列代號                                  | F2: F2 type hypoid gear reduction motor F2: F2系列小型準雙曲面齒輪減速機                                                                                            |                                                                             |
| 2  | Output shaft type 輸出軸類型                           | S: Hollow shaft S: 中空軸                                                                                                                                 |                                                                             |
|    |                                                   | F: Solid shaft F: 實心軸                                                                                                                                  |                                                                             |
| 3  | Output shaft DIA 輸出軸孔徑                            | 12 ( 4 ) : Φ12 ( 鍵槽尺寸4 ) 15 ( 5 ) : Φ15 ( 5 )                                                                                                          |                                                                             |
|    | Output shaft DIA 輸出軸軸徑                            | 15 ( 5 ) : Φ15 ( 5 ) 18 ( 6 ) : Φ18 ( 6 )                                                                                                              |                                                                             |
| 4  | Axis configuration 軸配置<br>( 僅限F2F型號, F2S型號為 “N” ) | Viewed from input shaft output shaft is on the left<br>L:從輸入軸一側觀察,輸出軸位于左側                                                                              | Viewed from input shaft output shaft is on both sides<br>T:從輸入軸一側觀察,輸出軸位于兩側 |
| 5  | Gear ratio 減速比                                    | 10: 1:10 15: 1:15 20: 1:20 25: 1:25 30: 1:30 x :1:x                                                                                                    |                                                                             |
| 6  | Rated power 額定功率                                  | 15: 15W 25: 25W 40: 40W 60: 60W 90: 90W x: xW                                                                                                          |                                                                             |
| 7  | Brake unit 剎車器形式                                  | R: Variable speed motor 調速電機<br>WM: NO variable speed brake motor 非調速剎車電機<br>W: NO variable speed motor 非調速電機<br>RM: Variable speed brake motor 調速剎車電機 |                                                                             |
| 8  | Rated voltage 額定電壓                                | C1: 1-Phase 單相 110V<br>C2: 1-Phase 單相 220V<br>S2: 3-Phase 三相 220V<br>S3: 3-Phase 三相 380V<br>S2/3: 3-Phase 三相 220/380V                                  |                                                                             |
| 9  | Code of fan 風扇代號                                  | F: Common 普通風扇<br>※No make means motor without fan 無風扇不標                                                                                               |                                                                             |
| 10 | Terminal box 接綫盒                                  | T : Terminal type 接綫盒型<br>N: 無接綫盒 ( 引出綫外漏 )                                                                                                            |                                                                             |
| 11 | Terminal box direction from output shaft 從軸端看盒位置  | A1: Top direction 上方向<br>A2: Down direction 下方向<br>Remark備注: A1direction is standard A1是標配方向                                                           |                                                                             |
| 12 | Lead wire direction from output shaft 從軸端看出綫方向    | T: Top direction 向上方向<br>D: NDown direction 向下方向<br>F: Forward direction 向前方向<br>B: Back 向后方向                                                          |                                                                             |
| 13 | Color 顏色                                          | W: White 灰白色                                                                                                                                           |                                                                             |
| 14 | Protection Class 防護等級                             | 20 65                                                                                                                                                  |                                                                             |

As technical data for these machines may be advantaged , please contact us or visit the company website. Not allow for publish without formal approved.

因技術改進，實際值可能與上述參數有差異，恕不另行通知，若需具體參數，敬請諮詢本公司或瀏覽網站。

DESCRIPTION OF MODEL

型號說明

Terminal box direction, lead wire direction and ventilation installation diagram 接綫盒位置和引出綫方向示意圖

|                                                                         |  |  |  |  |
|-------------------------------------------------------------------------|--|--|--|--|
| View the terminal box position from the input shaft end.<br>從輸入軸端看接綫盒方位 |  |  |  |  |
| Lead wire direction from output shaft<br>從軸端看引出綫方向                      |  |  |  |  |
|                                                                         |  |  |  |  |

型號說明

Description of model

型號說明

Description of model



STANDERD MODEL COMPOSITION TABLE 標準機型構成表

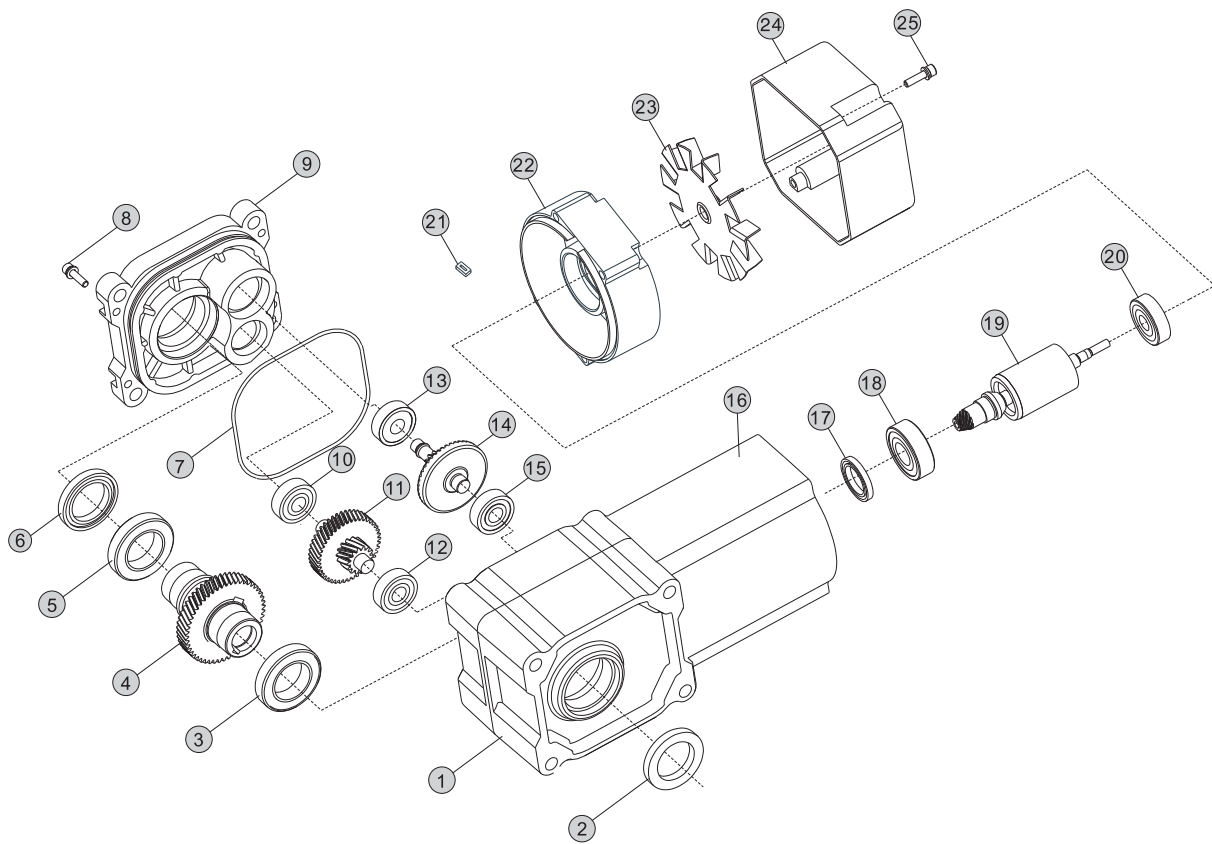
F2S (長方同心法蘭型)

| Model<br>型號 | Rated power<br>電機功率 | Hollow Dim<br>孔徑(D) | Ratio<br>減速比 |       |       |       |       |       |      |      |  |  |
|-------------|---------------------|---------------------|--------------|-------|-------|-------|-------|-------|------|------|--|--|
| 減速機         | 15W                 | 12D                 | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     |                     | 1/80         | 1/100 | 1/120 | 1/160 | 1/200 | 1/240 |      |      |  |  |
|             | 25W                 | 12D                 | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     |                     | 1/80         | 1/100 | 1/120 | 1/160 | 1/200 | 1/240 |      |      |  |  |
|             | 40W                 | 15D                 | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     | 20D                 | 1/80         | 1/100 | 1/120 | 1/160 | 1/200 | 1/240 |      |      |  |  |
| 帶制動器減速機     | 60W                 | 15D                 | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     | 20D                 | 1/80         | 1/100 | 1/120 | 1/160 | 1/200 | 1/240 |      |      |  |  |
|             | 90W                 | 15D                 | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     | 20D                 | 1/80         | 1/100 | 1/120 | 1/160 | 1/200 | 1/240 |      |      |  |  |
|             | 120W                | 15D                 | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     | 20D                 | 1/80         | 1/100 | 1/120 | 1/160 | 1/200 |       |      |      |  |  |
|             | 140W                | 15D                 | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     | 20D                 | 1/80         | 1/100 | 1/120 | 1/160 |       |       |      |      |  |  |

F2F (長方同心法蘭型)

| Model<br>型號 | Rated Power<br>電機功率 | Shaft Dim<br>軸徑(d) | Axis<br>configuration<br>軸配置 | Ratio<br>減速比 |       |       |       |       |       |      |      |  |  |
|-------------|---------------------|--------------------|------------------------------|--------------|-------|-------|-------|-------|-------|------|------|--|--|
| 減速機         | 15W                 | 15d                | L                            | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     |                    | T                            | 1/80         | 1/100 | 1/120 | 1/160 | 1/200 | 1/240 |      |      |  |  |
|             | 25W                 | 15d                | L                            | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     |                    | T                            | 1/80         | 1/100 | 1/120 | 1/160 | 1/200 | 1/240 |      |      |  |  |
|             | 40W                 | 18d                | L                            | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     |                    | T                            | 1/80         | 1/100 | 1/120 | 1/160 | 1/200 | 1/240 |      |      |  |  |
| 帶制動器減速機     | 60W                 | 18d                | L                            | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     |                    | T                            | 1/80         | 1/100 | 1/120 | 1/160 | 1/200 | 1/240 |      |      |  |  |
|             | 90W                 | 18d                | L                            | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     |                    | T                            | 1/80         | 1/100 | 1/120 | 1/160 | 1/200 | 1/240 |      |      |  |  |
|             | 120W                | 18d                | L                            | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     |                    | T                            | 1/80         | 1/100 | 1/120 | 1/160 | 1/200 |       |      |      |  |  |
|             | 140W                | 18d                | L                            | 1/5          | 1/10  | 1/15  | 1/20  | 1/30  | 1/40  | 1/50 | 1/60 |  |  |
|             |                     |                    | T                            | 1/80         | 1/100 | 1/120 | 1/160 |       |       |      |      |  |  |

PRODUCT STRUCTURE DIAGRAM 產品結構圖



Detail parts list 零件清單

| No | Denomination<br>零件名稱   | No | Denomination<br>零件名稱 | No | Denomination<br>零件名稱 |
|----|------------------------|----|----------------------|----|----------------------|
| 1  | Housing 本體             | 11 | 2nd main gear 二軸組件   | 21 | Wire Jacket 護綫套      |
| 2  | Oil seal 油封            | 12 | Ball bearing 軸承      | 22 | Rear cover 後端蓋       |
| 3  | Ball bearing 軸承        | 13 | Ball bearing 軸承      | 23 | Fan 風葉               |
| 4  | Output main gear 輸出輪組件 | 14 | 1st main gear 一輪組件   | 24 | Fan cover 風罩         |
| 5  | Ball bearing 軸承        | 15 | Ball bearing 軸承      | 25 | Cross screw 十字螺釘     |
| 6  | Oil seal 油封            | 16 | Stator 定子總成          |    |                      |
| 7  | O-ring O型密封圈           | 17 | Oil seal 油封          |    |                      |
| 8  | Inner hex.screw 內六角螺釘  | 18 | Ball bearing 軸承      |    |                      |
| 9  | Bearing plate 軸承板      | 19 | Rotor 轉子             |    |                      |
| 10 | Ball bearing 軸承        | 20 | Ball bearing 軸承      |    |                      |

STANDARD SPECIFICATIONS 標準規格

標準規格

|                     |                                |                                                                         |           |
|---------------------|--------------------------------|-------------------------------------------------------------------------|-----------|
| Motor<br>電機         | Power<br>功率                    | 15, 25, 40, 60, 90,120, 140W                                            |           |
|                     |                                | No brake ,with brake 無制動器、附帶制動器                                         |           |
|                     | Rated power<br>電源              | 220v/50Hz                                                               | 380v/50Hz |
|                     | Poles of the motor<br>電機極數     | 4                                                                       |           |
|                     | Protection class<br>防護等級       | IP65                                                                    |           |
|                     | Cooling-down method<br>冷卻方式    | 15~40W-自冷卻型（IC410） 60~140W-自控型（IC411）                                   |           |
|                     | Time duty<br>工作制式              | Continuous running 連續運轉                                                 |           |
|                     | Insucation class<br>絕緣         | B                                                                       |           |
|                     | Action<br>制動器方式                | Non-excitation action type、<br>DC electromagnetic brake 無勵磁動作型、直流電磁制動器  |           |
| Reducer<br>減速器      | Ratio<br>減速比                   | 1/5~1/240                                                               |           |
|                     | Lubricating<br>潤滑方式            | Lubricant 封閉潤滑油                                                         |           |
|                     | Shaft end key way<br>軸端鍵槽部     | GB/T1095-2003:附帶輸出軸鍵（鍵為普通級別）                                            |           |
|                     | Installation site<br>安裝場所      | Less dust .nowater drench place 室內塵埃較少、無水淋的場所                           |           |
| Environment<br>適用環境 | Temperature<br>溫度              | -10℃~+40℃                                                               |           |
|                     | Humidity<br>濕度                 | 90%以下（無結霜）                                                              |           |
|                     | Environment<br>環境              | Non-corrosive gas、explosive gas、<br>water vapor etc 無腐蝕性氣體、爆炸性氣體，水蒸氣等   |           |
|                     | Installation direction<br>安裝方向 | No horizontal、vertical、<br>tilt mounting restrictions 無水平、垂直、傾斜等安裝角度的限制 |           |
|                     | Color<br>顏色                    | White白灰色                                                                |           |

motor characteristic 電機特性

| Phase<br>相數                                                         | Power<br>功率 | Poles of<br>the motor<br>電機極數 | Rated<br>Frequency<br>頻率（Hz） | Rated<br>Voltage<br>電壓（V） | Rated Power<br>額定電流值（A） | Rated Power<br>額定轉速（rpm） | 20℃時，直流側制動器<br>電流值（A,參考值） |
|---------------------------------------------------------------------|-------------|-------------------------------|------------------------------|---------------------------|-------------------------|--------------------------|---------------------------|
| Singe<br>phase<br>/<br>Three<br>phases<br><br>單<br>相<br>/<br>三<br>相 | 15W         | 4                             | 50                           | 220<br>(380)              | 0.14<br>(0.11)          | 1400                     | 0.07                      |
|                                                                     | 25W         |                               |                              |                           | 0.2<br>(0.11)           |                          | 0.07                      |
|                                                                     | 40W         |                               |                              |                           | 0.32<br>(0.13)          |                          | 0.07                      |
|                                                                     | 60W         |                               |                              |                           | 0.42<br>(0.17)          |                          | 0.08                      |
|                                                                     | 90W         |                               |                              |                           | 0.55<br>(0.26)          |                          | 0.08                      |
|                                                                     | 120W        |                               |                              |                           | 0.8<br>(0.35)           |                          | 0.08                      |
|                                                                     | 140W        |                               |                              |                           | 1.13<br>(0.55)          |                          | 0.08                      |

注）額定電流值（）內為380V時的值。  
As technical data for these machines may be advantaged , please contact us or visit the company website. Not allow for publish without formal approved.  
因技術改進，實際值可能與上述參數有差異，恕不另行通知，若需具體參數，敬請諮詢本公司或瀏覽網站。

15W  
1-PHASE/3-PHASE  
單相/三相



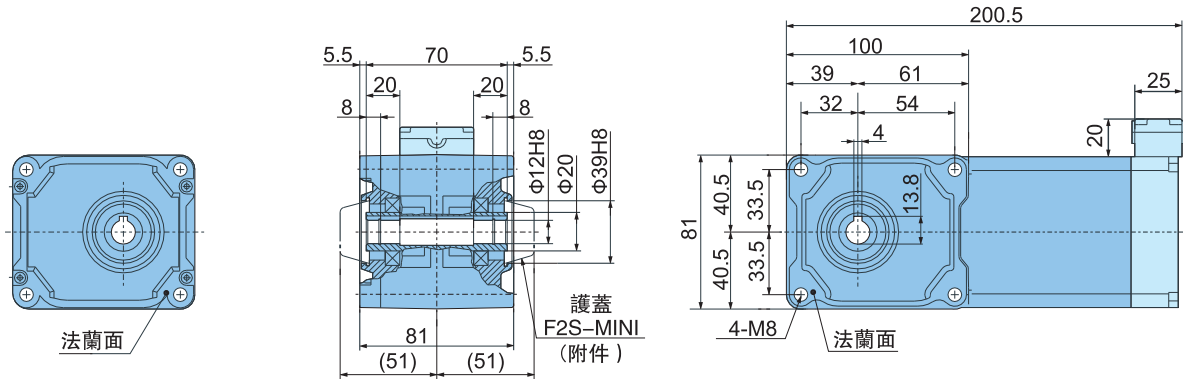
F2S12 ( 4 ) N- ( 5~240 ) K+15WC2-N

| Power<br>功率 | Rated Voltage<br>電壓（V）                          |     | Rated Frequency<br>頻率（Hz）                        |      | Rated Currment<br>額定電流（A） |                           | Rated Speed<br>額定轉速（rpm）  |       | Insulation class<br>絕緣等級   |     | Protection class<br>防護等級   |     |  |  |
|-------------|-------------------------------------------------|-----|--------------------------------------------------|------|---------------------------|---------------------------|---------------------------|-------|----------------------------|-----|----------------------------|-----|--|--|
| 15W         | 380                                             |     | 50                                               |      | 0.11                      |                           | 1400                      |       | B                          |     | 20 65                      |     |  |  |
|             | 220                                             |     | 50                                               |      | 0.14                      |                           | 1400                      |       |                            |     |                            |     |  |  |
|             |                                                 |     |                                                  |      |                           |                           |                           |       |                            |     |                            |     |  |  |
| Power<br>功率 | Dimension drawing<br>of Hollow shaft<br>中空軸 外形圖 |     | Dimension drawing<br>of Solid shaft<br>實心軸軸部 尺寸圖 |      | Ratio<br>減速比              | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |       | Output O.H.L<br>輸出軸容許O.H.L |     | Output shaft<br>輸出軸容許軸向力負荷 |     |  |  |
|             |                                                 |     |                                                  |      |                           | 50Hz                      | N・m                       | kgf・m | N                          | kgf | N                          | kgf |  |  |
| 15W         | Φ12D<br>(4)                                     | B-1 | Φ15d<br>(5)                                      | B-29 | 1/5                       | 300                       | 0.48                      | 0.05  | 266                        | 27  | 71                         | 7   |  |  |
|             |                                                 |     |                                                  |      | 1/10                      | 150                       | 0.69                      | 0.07  | 343                        | 35  | 88                         | 9   |  |  |
|             |                                                 |     |                                                  |      | 1/15                      | 100                       | 0.98                      | 0.10  | 441                        | 45  | 108                        | 11  |  |  |
|             |                                                 |     |                                                  |      | 1/20                      | 75                        | 1.27                      | 0.13  | 539                        | 55  | 137                        | 14  |  |  |
|             |                                                 | B-2 |                                                  |      | 1/30                      | 50                        | 1.96                      | 0.20  | 686                        | 70  | 177                        | 18  |  |  |
|             |                                                 |     |                                                  |      | 1/40                      | 37.5                      | 2.65                      | 0.27  | 784                        | 80  | 196                        | 20  |  |  |
|             |                                                 |     |                                                  |      | 1/50                      | 30                        | 3.33                      | 0.34  | 882                        | 90  | 226                        | 23  |  |  |
|             |                                                 |     |                                                  |      | 1/60                      | 25                        | 3.92                      | 0.40  | 882                        | 90  | 226                        | 23  |  |  |
|             |                                                 | B-3 |                                                  |      | 1/80                      | 18.8                      | 5.00                      | 0.51  | 980                        | 100 | 245                        | 25  |  |  |
|             |                                                 |     |                                                  |      | 1/100                     | 15                        | 6.27                      | 0.64  | 980                        | 100 | 245                        | 25  |  |  |
|             |                                                 |     |                                                  |      | 1/120                     | 12.5                      | 7.45                      | 0.76  | 1080                       | 110 | 275                        | 28  |  |  |
|             |                                                 |     |                                                  |      | 1/160                     | 9.4                       | 9.80                      | 1.0   | 1080                       | 110 | 275                        | 28  |  |  |
| B-4         |                                                 |     | 1/200                                            | 7.5  | 12.7                      | 1.3                       | 1080                      | 110   | 275                        | 28  |                            |     |  |  |
|             |                                                 |     | 1/240                                            | 6.3  | 14.7                      | 1.5                       | 1080                      | 110   | 275                        | 28  |                            |     |  |  |
| B-5         |                                                 |     |                                                  |      |                           |                           |                           |       |                            |     |                            |     |  |  |
|             |                                                 |     |                                                  |      |                           |                           |                           |       |                            |     |                            |     |  |  |

Note: 1.Allow O.H.L to be the value of output shaft （注）1.容許O.H.L為輸出軸端面10mm位置的數值。  
end face at 10mm.

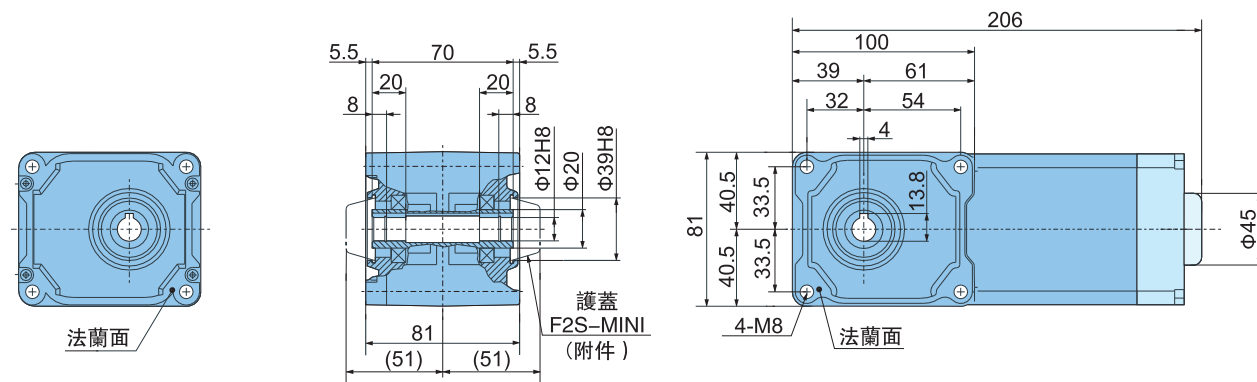
NO variable speed motor 非調速電機 （防護等級：IP65）

圖B-1 F2S12 ( 4 ) N- ( 5~240 ) K+15WC2-T



Variable speed motor 調速電機 (防護等級: IP20)

圖B-2 F2S12 (4) N- (5~240) K+15RC2-N

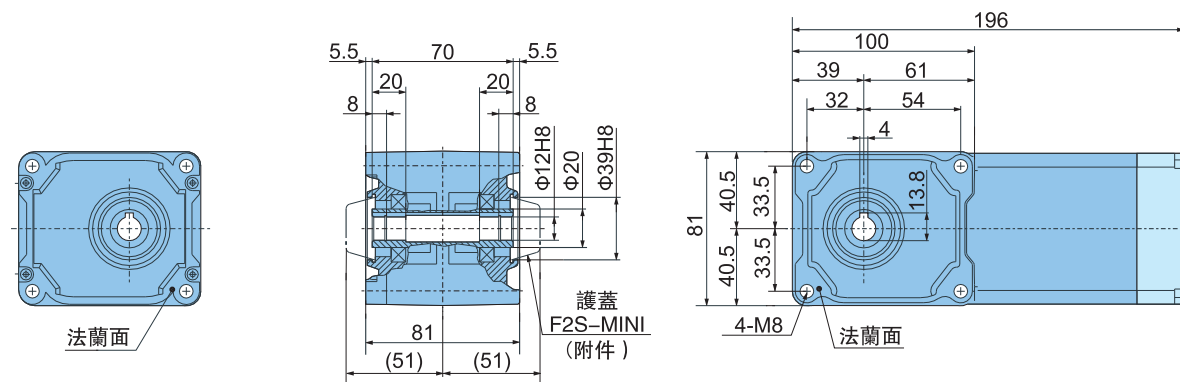


Note: See page64 for detailed demensions of output shaft.

(注): 實心軸部詳細尺寸見64頁。

NO variable speed motor 非調速電機 (防護等級: IP20)

圖B-3 F2S12 (4) N- (5~240) K+15WC2-N

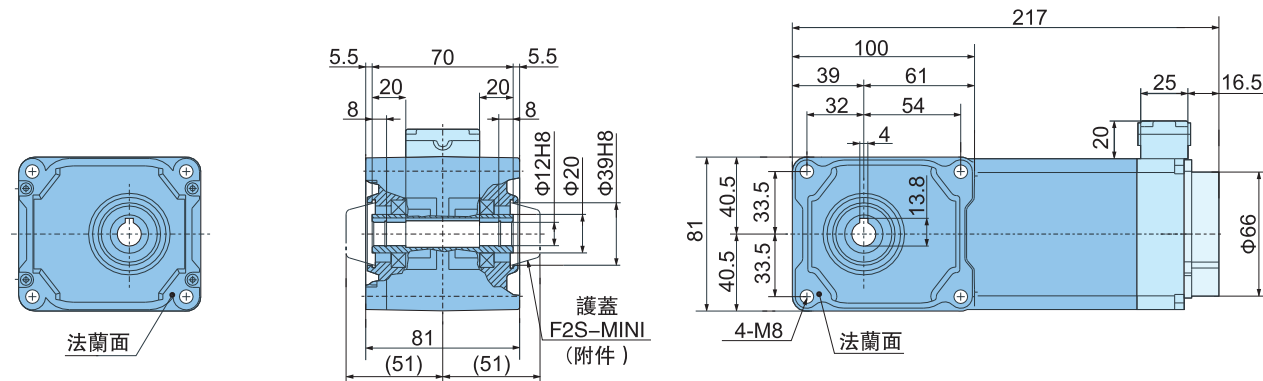


Note: See page64 for detailed demensions of output shaft.

(注): 實心軸部詳細尺寸見64頁。

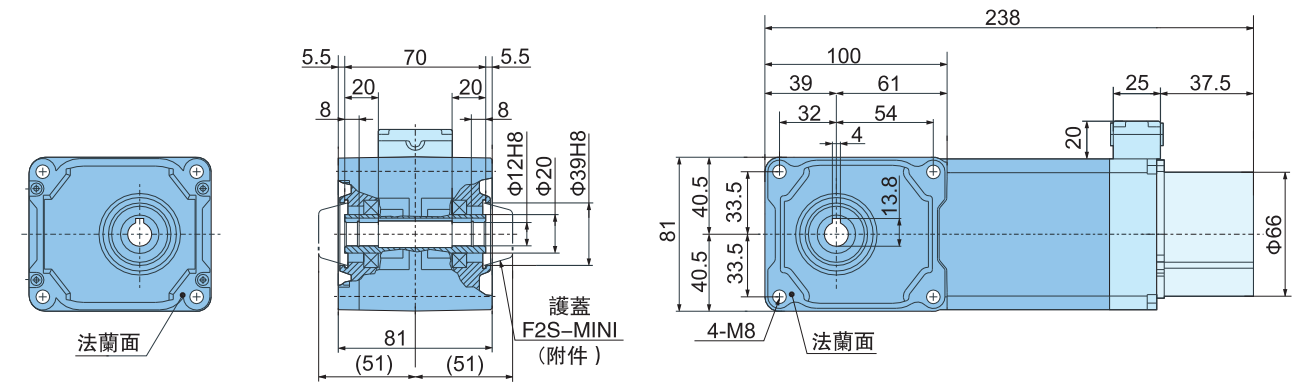
Variable speed motor 調速電機 (防護等級: IP65)

圖B-4 F2S12 (4) N- (5~240) K+15RC2-T



Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機 (防護等級: IP65)

圖B-5 F2S12 (4) N- (5~240) K+15WMC2-T

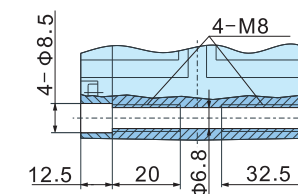


Note: See page64 for detailed demensions of output shaft.

(注): 實心軸部詳細尺寸見64頁。

► Detailed drawing of mounting surface fixing 安裝面固定用螺孔詳細圖 (標準規格)  
screw holes (standard specifications)

Diameter of axle 軸徑:  $\phi 12$  (輸出軸內徑:  $\phi 12$ )





25W  
1-PHASE/3-PHASE  
單相/三相



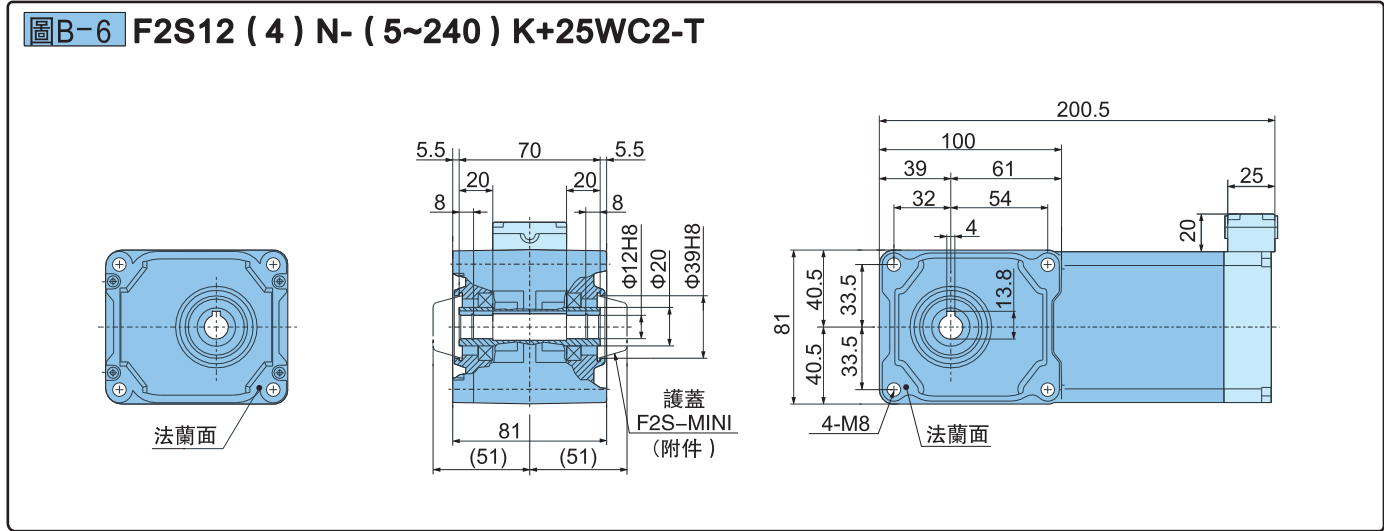
F2S12 ( 4 ) N- ( 5~240 ) K+25WC2-N

| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Frequency<br>頻率 (Hz) | Rated Currment<br>額定電流 (A) | Rated Speed<br>額定轉速 (rpm) | Insulation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|----------------------------|----------------------------|---------------------------|--------------------------|--------------------------|
| 25W         | 380                     | 50                         | 0.11                       | 1350                      | B                        | 20 65                    |
|             | 220                     | 50                         | 0.20                       | 1350                      |                          |                          |

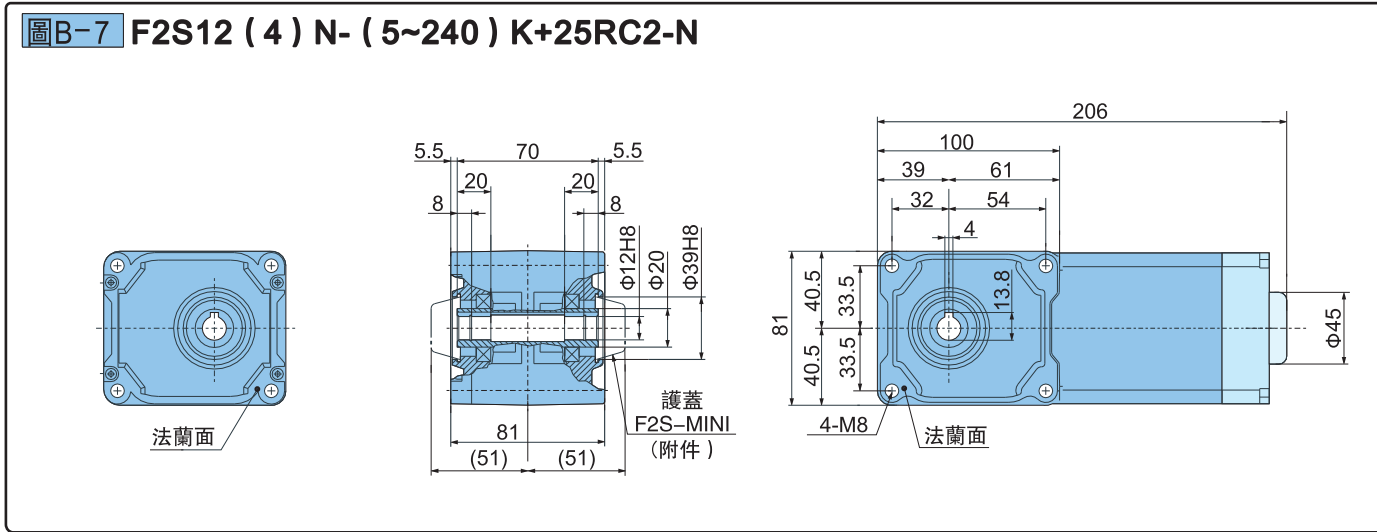
| Power<br>功率 | Dimension drawing<br>of Hollow shaft<br>中空軸外形圖 |                                                  | Dimension drawing<br>of Solid shaft<br>實心軸軸部 尺寸圖 |      | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) |  | Output Torque<br>輸出軸容許轉矩力<br>N · m      kgf · m |      | Output O.H.L<br>輸出軸容許O.H.L |     | Output shaft<br>輸出軸容許軸向力負荷 |     |
|-------------|------------------------------------------------|--------------------------------------------------|--------------------------------------------------|------|--------------|---------------------------|--|-------------------------------------------------|------|----------------------------|-----|----------------------------|-----|
|             |                                                |                                                  |                                                  |      |              | 50Hz                      |  | 50Hz                                            |      | N                          | kgf | N                          | kgf |
| 25W         | Φ12D<br>(4)                                    | B-6<br><br>B-7<br><br>B-8<br><br>B-9<br><br>B-10 | Φ15d<br>(5)                                      | B-29 | 1/5          | 300                       |  | 0.69                                            | 0.07 | 266                        | 27  | 71                         | 7   |
|             |                                                |                                                  |                                                  |      | 1/10         | 150                       |  | 1.08                                            | 0.11 | 343                        | 35  | 88                         | 9   |
|             |                                                |                                                  |                                                  |      | 1/15         | 100                       |  | 1.67                                            | 0.17 | 441                        | 45  | 108                        | 11  |
|             |                                                |                                                  |                                                  |      | 1/20         | 75                        |  | 2.25                                            | 0.23 | 539                        | 55  | 137                        | 14  |
|             |                                                |                                                  |                                                  |      | 1/30         | 50                        |  | 3.33                                            | 0.34 | 686                        | 70  | 177                        | 18  |
|             |                                                |                                                  |                                                  |      | 1/40         | 37.5                      |  | 4.41                                            | 0.45 | 784                        | 80  | 196                        | 20  |
|             |                                                |                                                  |                                                  |      | 1/50         | 30                        |  | 5.49                                            | 0.56 | 882                        | 90  | 226                        | 23  |
|             |                                                |                                                  |                                                  |      | 1/60         | 25                        |  | 6.66                                            | 0.68 | 882                        | 90  | 226                        | 23  |
|             |                                                |                                                  |                                                  |      | 1/80         | 18.8                      |  | 8.43                                            | 0.86 | 980                        | 100 | 245                        | 25  |
|             |                                                |                                                  |                                                  |      | 1/100        | 15                        |  | 10.8                                            | 1.1  | 980                        | 100 | 245                        | 25  |
|             |                                                |                                                  |                                                  |      | 1/120        | 12.5                      |  | 12.7                                            | 1.3  | 1080                       | 110 | 275                        | 28  |
|             |                                                |                                                  |                                                  |      | 1/160        | 9.4                       |  | 16.7                                            | 1.7  | 1080                       | 110 | 275                        | 28  |
|             |                                                |                                                  |                                                  |      | 1/200        | 7.5                       |  | 20.6                                            | 2.1  | 1080                       | 110 | 275                        | 28  |
|             |                                                |                                                  |                                                  |      | 1/240        | 6.3                       |  | 25.5                                            | 2.6  | 1080                       | 110 | 275                        | 28  |

Note: 1.Allow O.H.L to be the value of output shaft end face at 10mm. (注) 1.容許O.H.L為輸出軸端面10mm位置的數值。

NO variable speed motor 非調速電機 (防護等級: IP65)



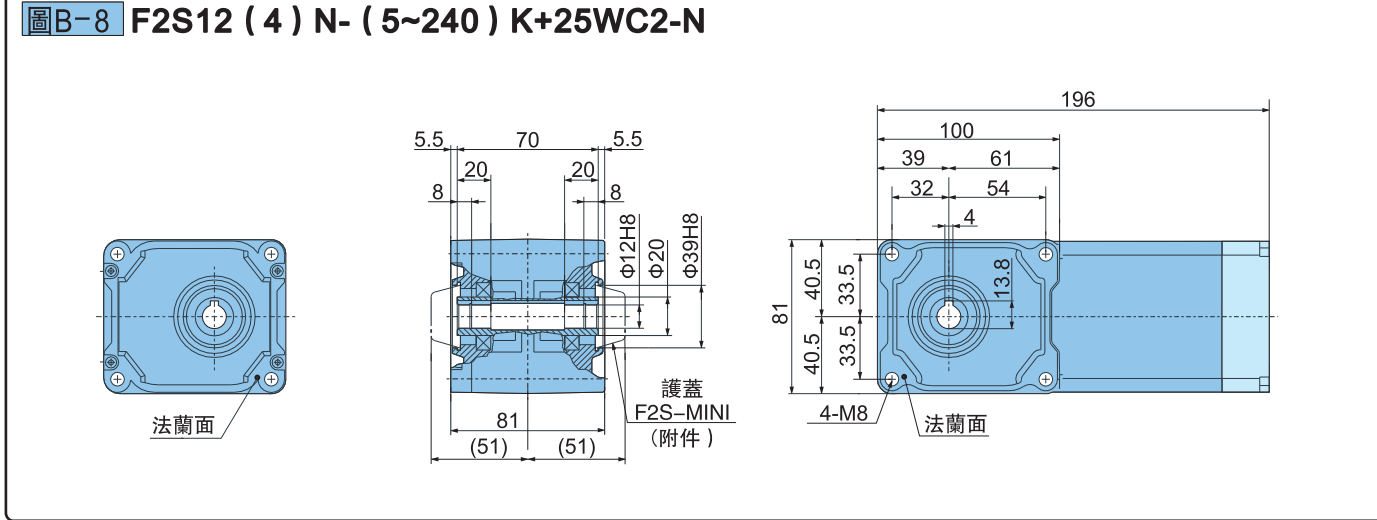
Variable speed motor 調速電機 (防護等級: IP20)



Note: See page64 for detailed dimensions of output shaft.

(注) : 實心軸部詳細尺寸見64頁。

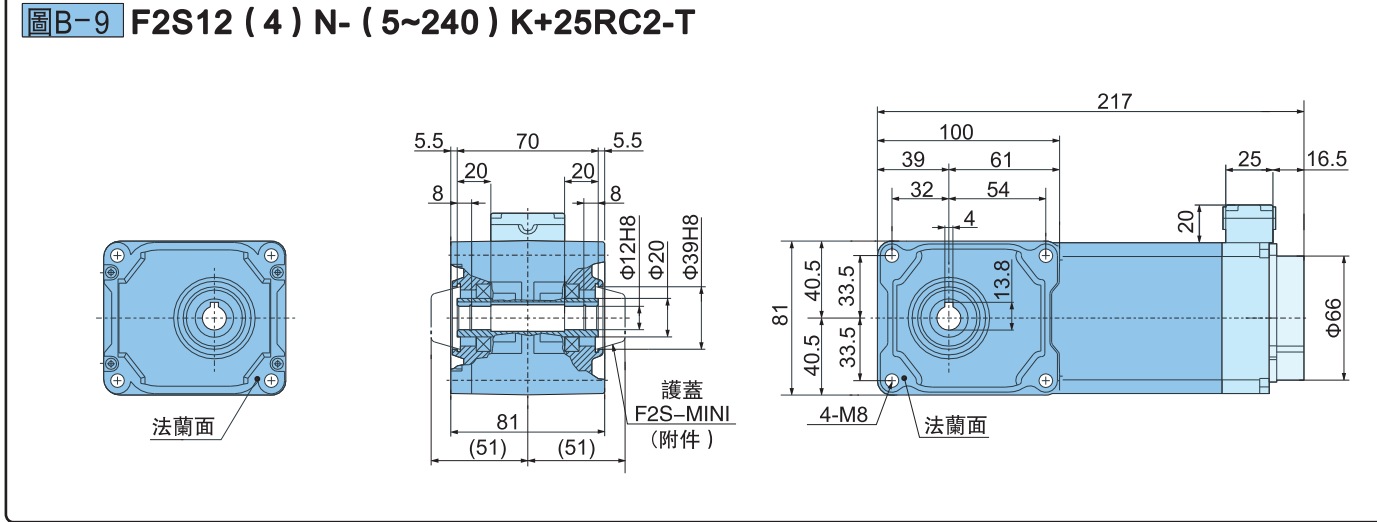
Variable speed motor 調速電機 (防護等級: IP20)



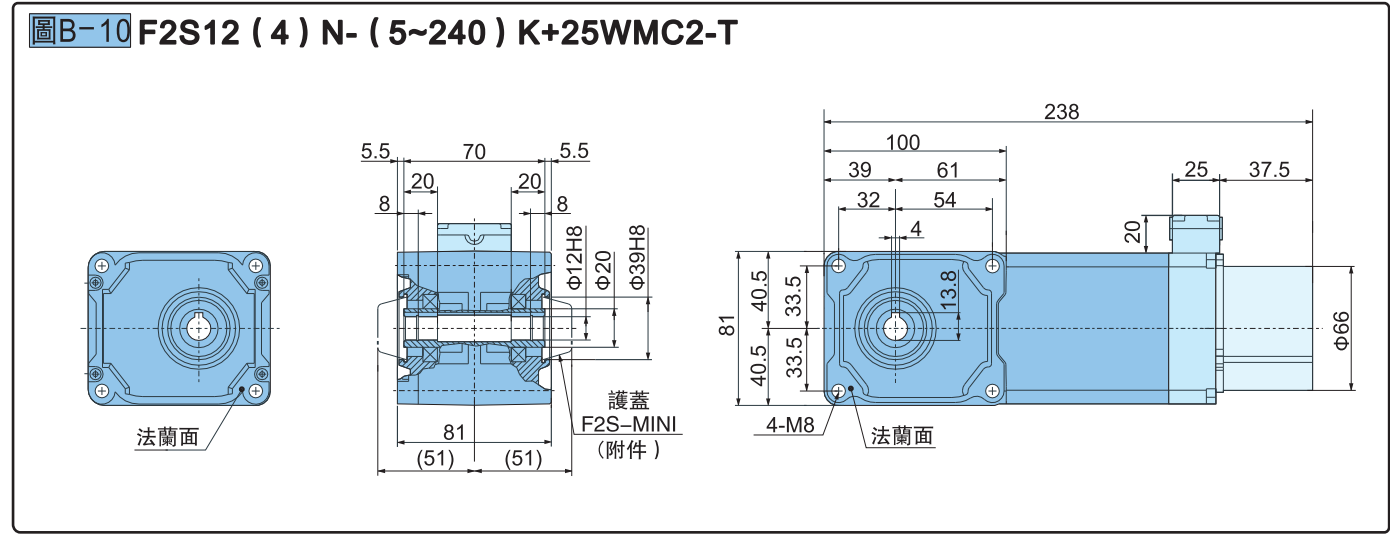
Note: See page64 for detailed dimensions of output shaft.

(注) : 實心軸部詳細尺寸見64頁。

Variable speed motor 調速電機 (防護等級: IP65)



Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機 (防護等級: IP65)

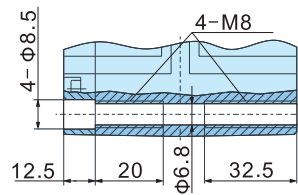


Note: See page64 for detailed demensions of output shaft.

(注): 實心軸部詳細尺寸見64頁。

► Detailed drawing of mounting surface fixing 安裝面固定用螺孔詳細圖 (標準規格) screw holes (standard specifications)

■ Diameter of axle 軸徑:  $\phi 12$  (輸出軸內徑:  $\phi 12$ )



40W  
1-PHASE/3-PHASE  
單相/三相



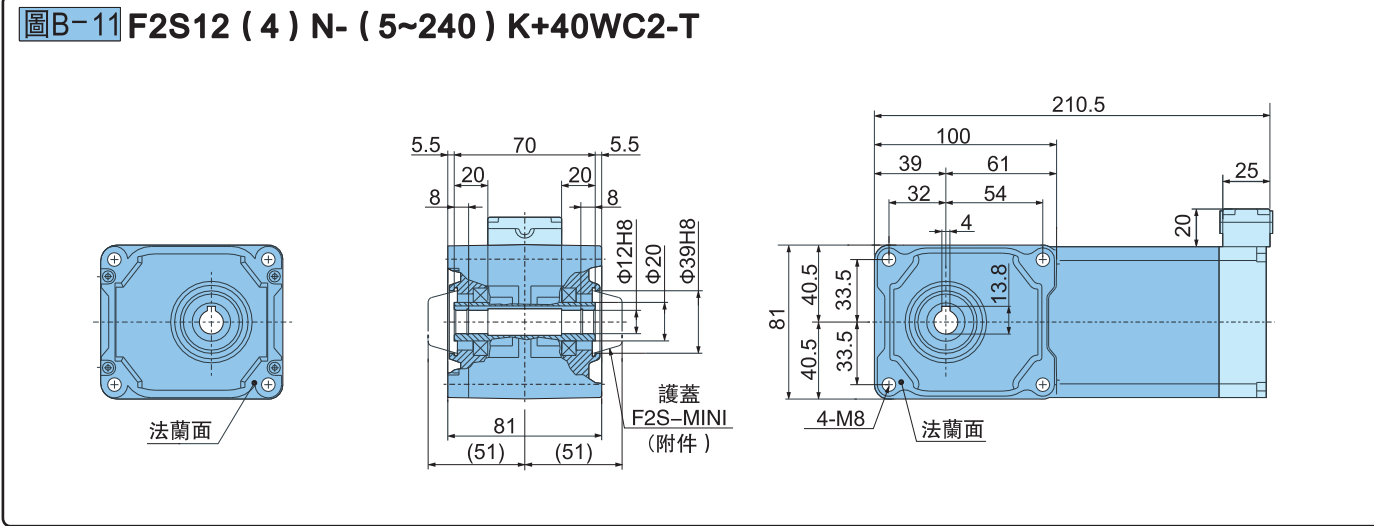
F2S12 (4) N- (5~240) K+40WC2-N

| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Frequency<br>頻率 (Hz) | Rated Currment<br>額定電流 (A) | Rated Speed<br>額定轉速 (rpm) | Insulation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|----------------------------|----------------------------|---------------------------|--------------------------|--------------------------|
| 40W         | 380                     | 50                         | 0.13                       | 1350                      | B                        | 20 65                    |
|             | 220                     | 50                         | 0.32                       | 1350                      |                          |                          |

| Power<br>功率 | Dimension drawing<br>of Hollow shaft<br>中空軸 外形圖 | Dimension drawing<br>of Solid shaft<br>實心軸軸部 尺寸圖 | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力<br>N · m      kgf · m |      | Output O.H.L<br>輸出軸容許O.H.L |     | Output shaft<br>輸出軸容許軸向力負荷 |     |
|-------------|-------------------------------------------------|--------------------------------------------------|--------------|---------------------------|-------------------------------------------------|------|----------------------------|-----|----------------------------|-----|
|             |                                                 |                                                  |              | 50Hz                      | 50Hz                                            | 50Hz | N                          | kgf | N                          | kgf |
| 40W         | $\phi 12D$<br>(4)                               | $\phi 15d$<br>(5)                                | 1/5          | 300                       | 1.16                                            | 0.12 | 266                        | 27  | 71                         | 7   |
|             |                                                 |                                                  | 1/10         | 150                       | 1.76                                            | 0.18 | 343                        | 35  | 88                         | 9   |
|             |                                                 |                                                  | 1/15         | 100                       | 2.65                                            | 0.27 | 441                        | 45  | 108                        | 11  |
|             |                                                 |                                                  | 1/20         | 75                        | 3.53                                            | 0.36 | 539                        | 55  | 137                        | 14  |
|             |                                                 |                                                  | 1/30         | 50                        | 5.29                                            | 0.54 | 686                        | 70  | 177                        | 18  |
|             |                                                 |                                                  | 1/40         | 37.5                      | 7.06                                            | 0.72 | 784                        | 80  | 196                        | 20  |
|             |                                                 |                                                  | 1/50         | 30                        | 8.82                                            | 0.90 | 882                        | 90  | 226                        | 23  |
|             |                                                 |                                                  | 1/60         | 25                        | 10.8                                            | 1.1  | 882                        | 90  | 226                        | 23  |
|             |                                                 |                                                  | 1/80         | 18.8                      | 13.7                                            | 1.4  | 980                        | 100 | 245                        | 25  |
|             |                                                 |                                                  | 1/100        | 15                        | 16.7                                            | 1.7  | 980                        | 100 | 245                        | 25  |
|             |                                                 |                                                  | 1/120        | 12.5                      | 20.6                                            | 2.1  | 1080                       | 110 | 275                        | 28  |
|             |                                                 |                                                  | ※1/160       | 9.4                       | 25.5                                            | 2.6  | 1080                       | 110 | 275                        | 28  |
|             |                                                 |                                                  | ※1/200       | 7.5                       | 25.5                                            | 2.6  | 1080                       | 110 | 275                        | 28  |
|             |                                                 |                                                  | ※1/240       | 6.3                       | 25.5                                            | 2.6  | 1080                       | 110 | 275                        | 28  |

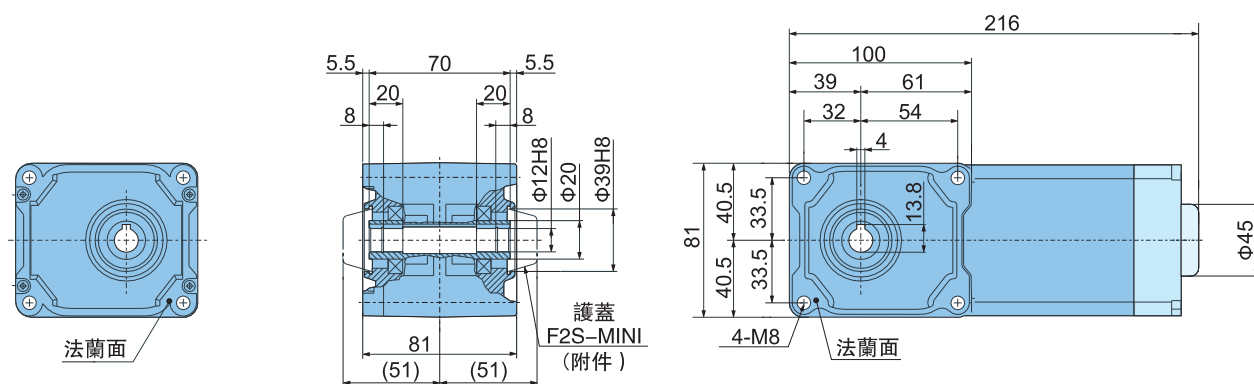
Note: 1.Allow O.H.L to be the value of output shaft end face at 10mm. (注) 1.容許O.H.L為輸出軸端面10mm位置的數值。  
2.※ Marked as torque limited. 2.※標記為轉矩力受限機型。

NO variable speed motor 非調速電機 (防護等級: IP65)



Variable speed motor 調速電機 (防護等級: IP20)

圖B-12 F2S12 (4) - (5~240) K+40RC2-N

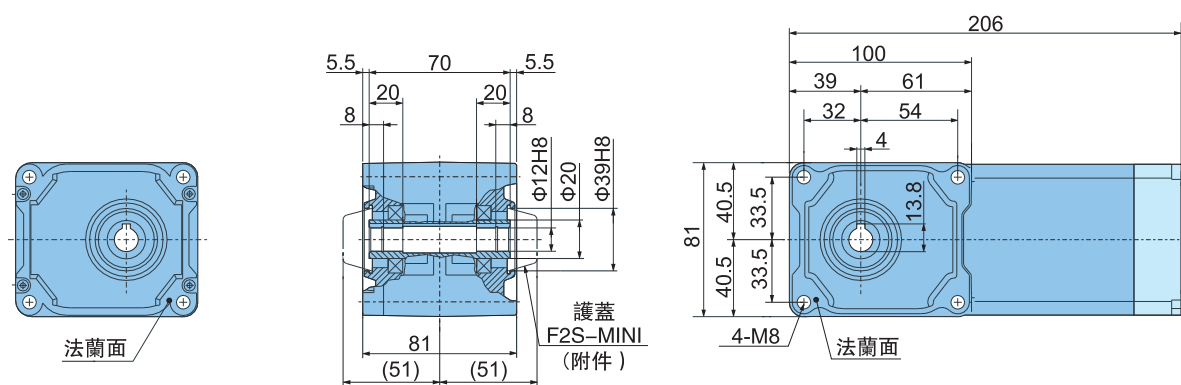


Note: See page64 for detailed demensions of output shaft.

(注): 實心軸部詳細尺寸見64頁。

NO variable speed motor 非調速電機 (防護等級: IP20)

圖B-13 F2S12 (4) N- (5~240) K+40WC2-N

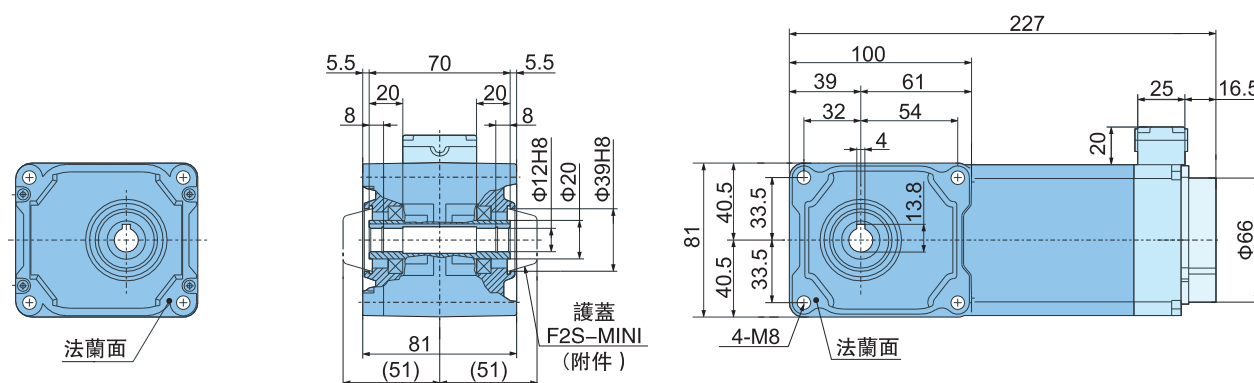


Note: See page64 for detailed demensions of output shaft.

(注): 實心軸部詳細尺寸見64頁。

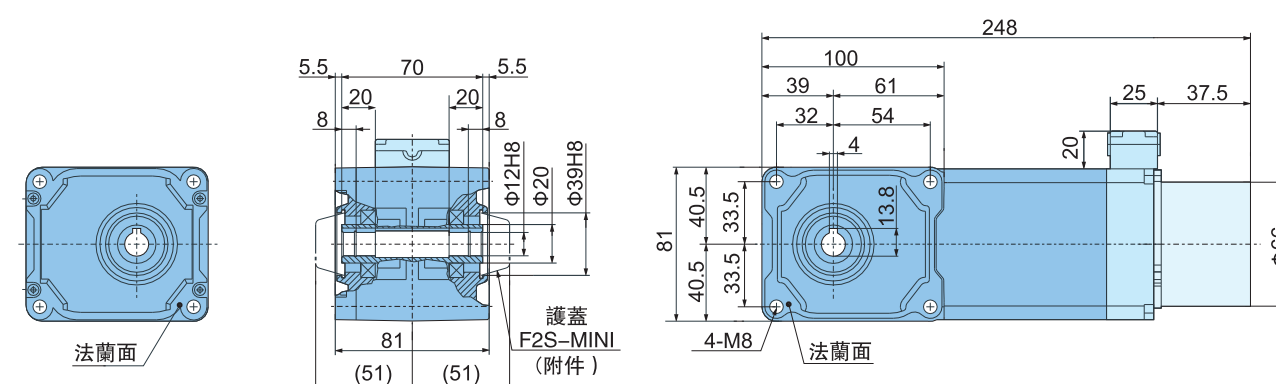
Variable speed motor 調速電機 (防護等級: IP65)

圖B-14 F2S12 (4) N- (5~240) K+40RC2-T



Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機 (防護等級: IP65)

圖B-15 F2S12 (4) - (5~240) K+40WMC2-T

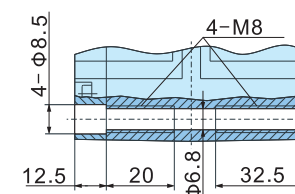


Note: See page64 for detailed demensions of output shaft.

(注): 實心軸部詳細尺寸見64頁。

► Detailed drawing of mounting surface fixing 安裝面固定用螺孔詳細圖 (標準規格) screw holes (standard specifications)

■ Diameter of axle 軸徑:  $\phi 12$  (輸出軸內徑:  $\phi 12$ )





40W  
1-PHASE/3-PHASE  
單相/三相

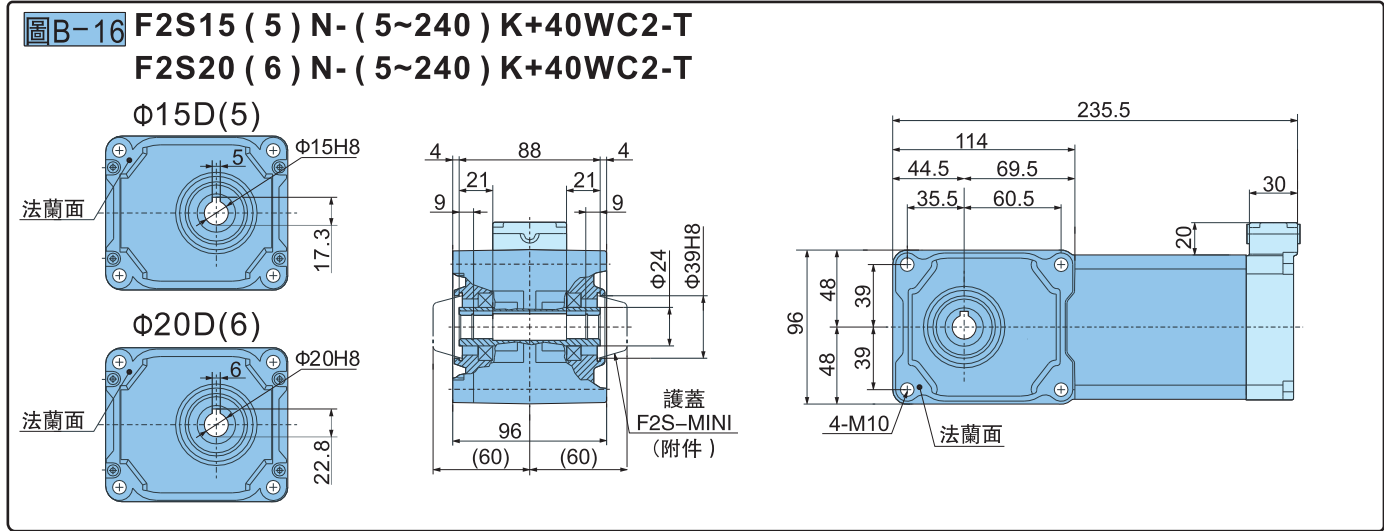


F2S15 ( 5 ) N- ( 5~240 ) K+40RC2-T  
F2S20 ( 6 ) N- ( 5~240 ) K+40RC2-T

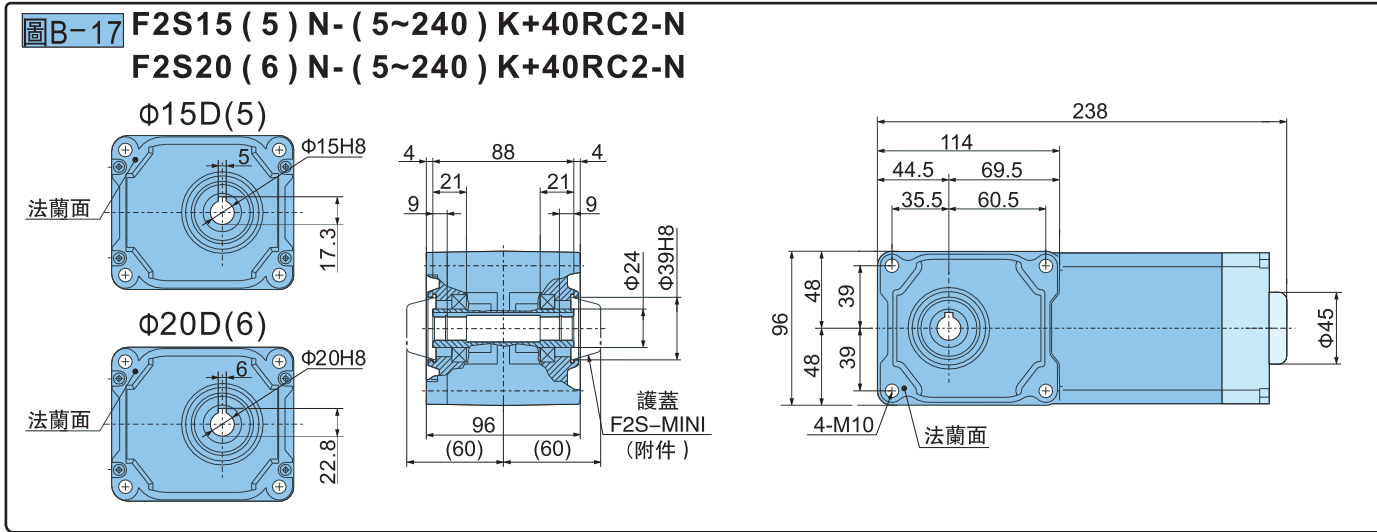
| Power<br>功 率 | Rated Voltage<br>電 壓 ( V )                      |      | Rated Frequency<br>頻 率 ( Hz )                    |       | Rated Currment<br>額定電流 ( A ) |                           | Rated Speed<br>額定轉速 ( rpm )                     |      | Insulation class<br>絕緣等級   |     | Protection class<br>防護等級   |     |
|--------------|-------------------------------------------------|------|--------------------------------------------------|-------|------------------------------|---------------------------|-------------------------------------------------|------|----------------------------|-----|----------------------------|-----|
| 40W          | 380                                             |      | 50                                               |       | 0.13                         |                           | 1350                                            |      | B                          |     | 20 65                      |     |
|              | 220                                             |      | 50                                               |       | 0.32                         |                           | 1350                                            |      |                            |     |                            |     |
|              |                                                 |      |                                                  |       |                              |                           |                                                 |      |                            |     |                            |     |
| Power<br>功 率 | Dimension drawing<br>of Hollow shaft<br>中空軸 外形圖 |      | Dimension drawing<br>of Solid shaft<br>實心軸軸部 尺寸圖 |       | Ratio<br>減速比                 | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力<br>N · m      kgf · m |      | Output O.H.L<br>輸出軸容許O.H.L |     | Output shaft<br>輸出軸容許軸向力負荷 |     |
|              |                                                 |      |                                                  |       |                              | 50Hz                      | 50Hz                                            | 50Hz | N                          | kgf | N                          | kgf |
| 40W          | Φ15D<br>(5)                                     | B-16 | Φ18d<br>(6)                                      | B-29  | 1/5                          | 300                       | 1.16                                            | 0.12 | 266                        | 27  | 71                         | 7   |
|              |                                                 |      |                                                  |       | 1/10                         | 150                       | 1.76                                            | 0.18 | 343                        | 35  | 88                         | 9   |
|              |                                                 |      |                                                  |       | 1/15                         | 100                       | 2.65                                            | 0.27 | 441                        | 45  | 108                        | 11  |
|              |                                                 | 1/20 |                                                  |       | 75                           | 3.53                      | 0.36                                            | 539  | 55                         | 137 | 14                         |     |
|              |                                                 | 1/30 |                                                  |       | 50                           | 5.29                      | 0.54                                            | 686  | 70                         | 177 | 18                         |     |
|              |                                                 | 1/40 |                                                  |       | 37.5                         | 7.06                      | 0.72                                            | 784  | 80                         | 196 | 20                         |     |
|              | Φ20D<br>(6)                                     | B-17 | 1/50                                             | 30    | 8.82                         | 0.90                      | 882                                             | 90   | 226                        | 23  |                            |     |
|              |                                                 |      | B-18                                             | 1/60  | 25                           | 10.8                      | 1.1                                             | 882  | 90                         | 226 | 23                         |     |
|              |                                                 |      |                                                  | 1/80  | 18.8                         | 13.7                      | 1.4                                             | 980  | 100                        | 245 | 25                         |     |
|              |                                                 | B-19 |                                                  | 1/100 | 15                           | 16.7                      | 1.7                                             | 980  | 100                        | 245 | 25                         |     |
|              |                                                 |      | 1/120                                            | 12.5  | 20.6                         | 2.1                       | 1080                                            | 110  | 275                        | 28  |                            |     |
|              |                                                 |      | ※1/160                                           | 9.4   | 26.5                         | 2.7                       | 1370                                            | 140  | 343                        | 35  |                            |     |
|              |                                                 | B-20 | ※1/200                                           | 7.5   | 33.3                         | 3.4                       | 1370                                            | 140  | 343                        | 35  |                            |     |
|              |                                                 |      | ※1/240                                           | 6.3   | 40.2                         | 4.1                       | 1370                                            | 140  | 343                        | 35  |                            |     |

Note: 1.Allow O.H.L to be the value of output shaft ( 注 ) 1.容許O.H.L為輸出軸端面10mm位置的數值。  
end face at 10mm. 2.※標記為轉矩力受限機型。

NO variable speed motor 非調速電機 ( 防護等級: IP65 )



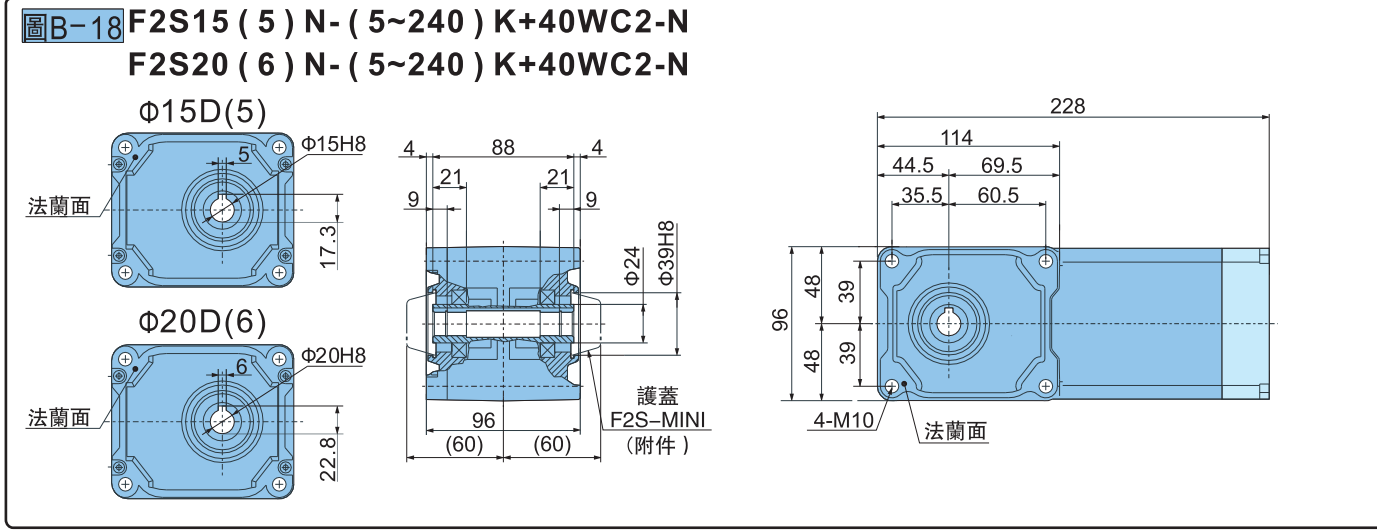
Variable speed motor 調速電機 ( 防護等級: IP20 )



Note: See page64 for detailed dimensions of output shaft.

( 注 ) : 實心軸部詳細尺寸見64頁。

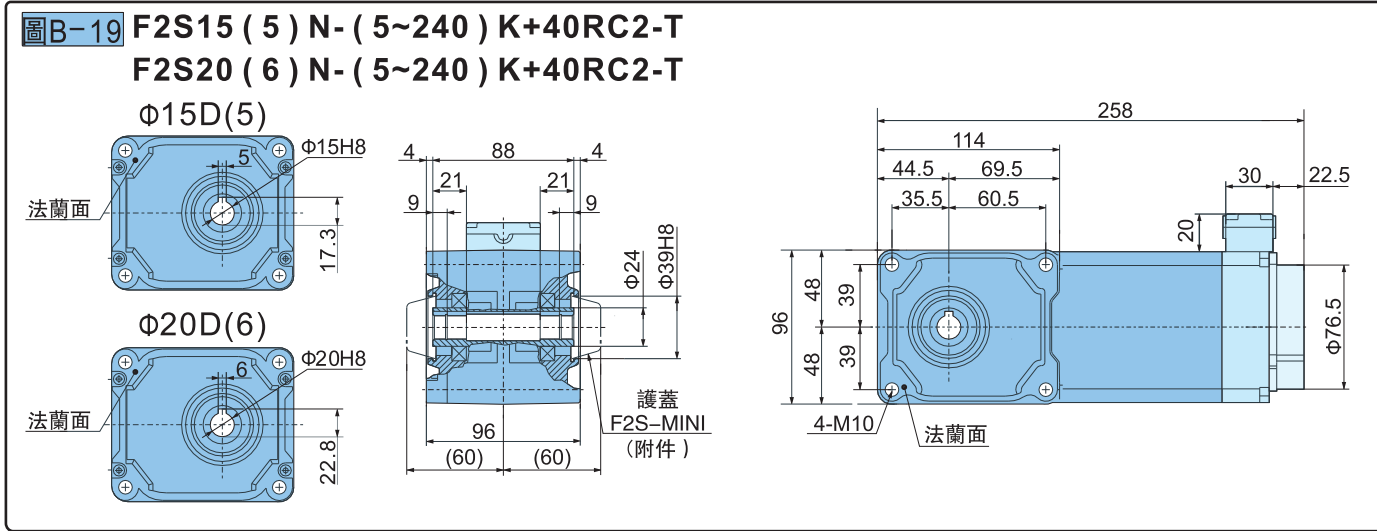
Variable speed motor 調速電機 ( 防護等級: IP20 )



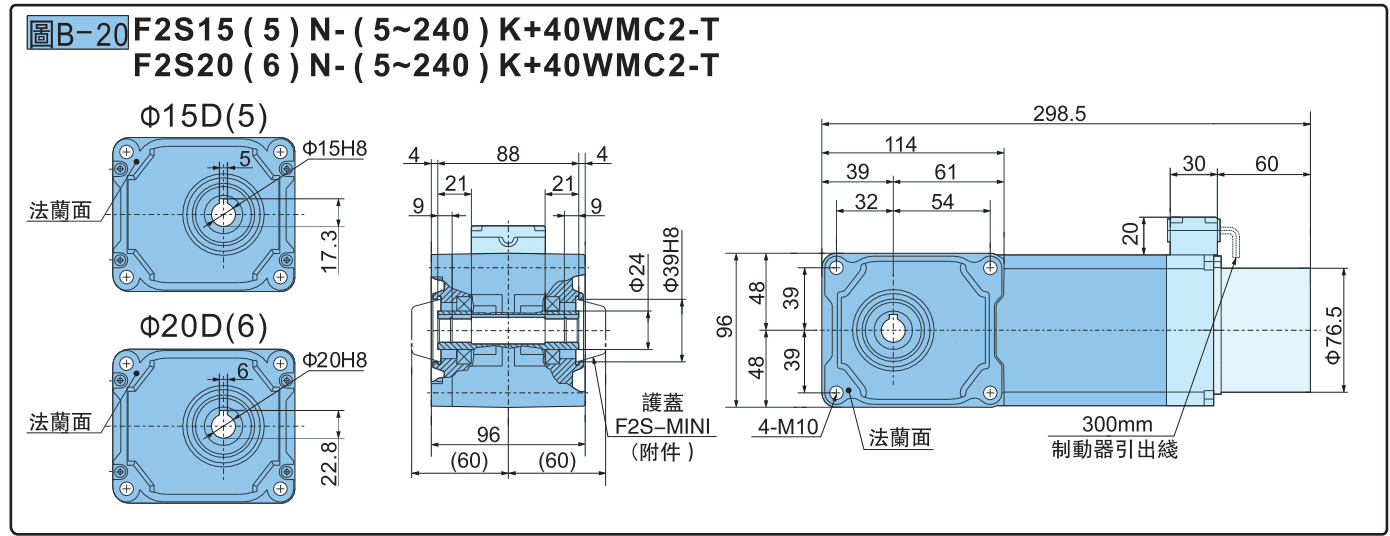
Note: See page64 for detailed dimensions of output shaft.

( 注 ) : 實心軸部詳細尺寸見64頁。

Variable speed motor 調速電機 ( 防護等級: IP65 )



Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機 (防護等級: IP65)

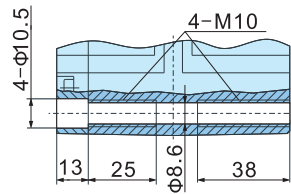


Note: See page64 for detailed dimensions of output shaft.

(注): 實心軸部詳細尺寸見64頁。

► Detailed drawing of mounting surface fixing 安裝面固定用螺孔詳細圖 (標準規格) screw holes (standard specifications)

■ Diameter of axle 軸徑:  $\Phi 15$  (輸出軸內徑:  $\Phi 15$ )



60W  
1-PHASE/3-PHASE  
單相/三相

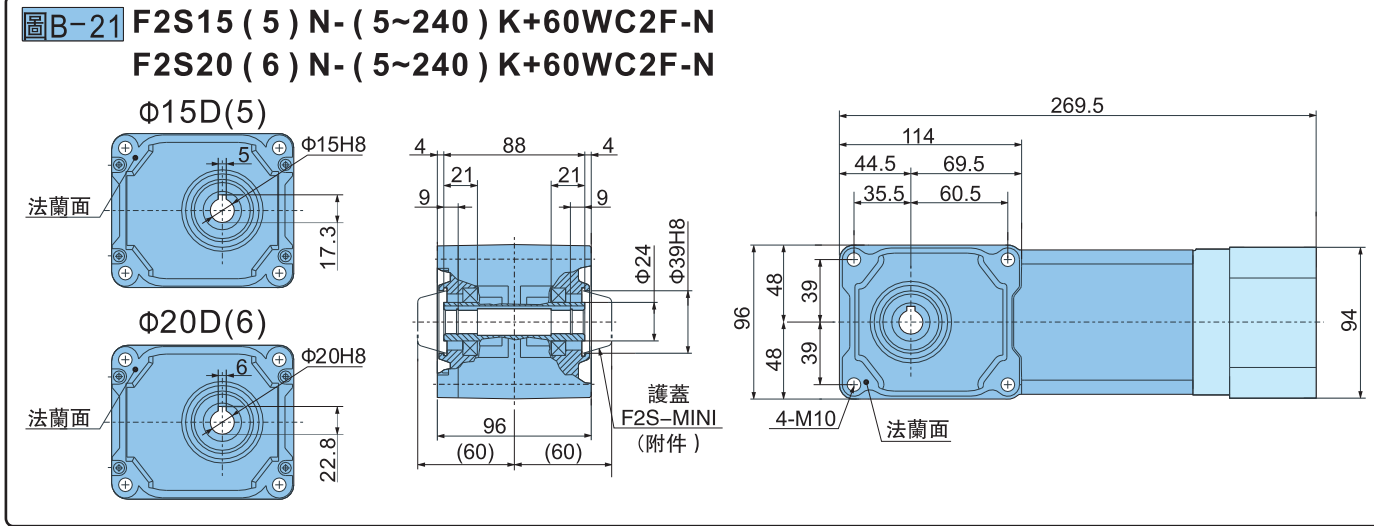


F2S15 ( 5 ) N- ( 5~240 ) K+60WC2-T  
F2S20 ( 6 ) N- ( 5~240 ) K+60WC2-T

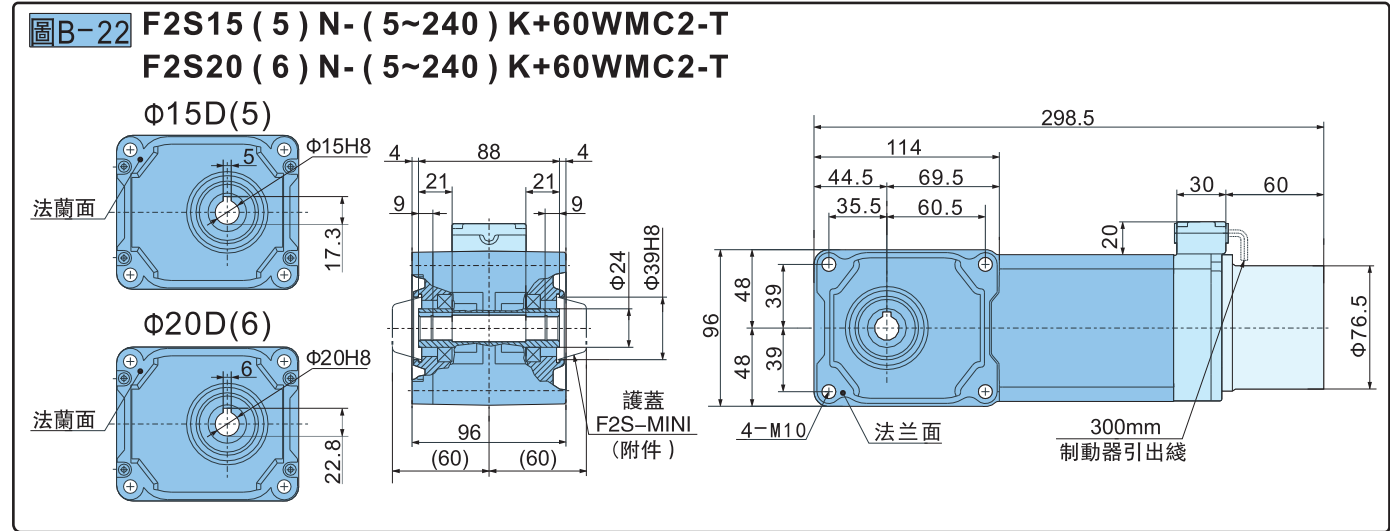
| Power<br>功 率 | Rated Voltage<br>電 壓 ( V )                      |      | Rated Frequency<br>頻 率 ( Hz )                    |        | Rated Currment<br>額定電流 ( A ) |                           | Rated Speed<br>額定轉速 ( rpm ) |       | Insucation class<br>絕緣等級   |    | Protection class<br>防護等級   |     |        |    |
|--------------|-------------------------------------------------|------|--------------------------------------------------|--------|------------------------------|---------------------------|-----------------------------|-------|----------------------------|----|----------------------------|-----|--------|----|
| 60W          | 380                                             |      | 50                                               |        | 0.17                         |                           | 1300                        |       | B                          |    | 20 65                      |     |        |    |
|              | 220                                             |      | 50                                               |        | 0.42                         |                           | 1300                        |       |                            |    |                            |     |        |    |
|              |                                                 |      |                                                  |        |                              |                           |                             |       |                            |    |                            |     |        |    |
| Power<br>功 率 | Dimension drawing<br>of Hollow shaft<br>中空軸 外形圖 |      | Dimension drawing<br>of Solid shaft<br>實心軸軸部 尺寸圖 |        | Ratio<br>減速比                 | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力   |       | Output O.H.L<br>輸出軸容許O.H.L |    | Output shaft<br>輸出軸容許軸向力負荷 |     |        |    |
|              |                                                 |      |                                                  |        |                              | 50Hz                      | kgf · m                     | N · m |                            |    | 軸 徑:12                     |     | 軸 徑:15 |    |
| 60W          | Φ15D<br>(5)                                     | B-21 | Φ18d<br>(6)                                      | B-29   | 1/5                          | 300                       | 1.82                        | 0.18  | 266                        | 27 | 71                         | 7   | 79     | 8  |
|              |                                                 |      |                                                  |        | 1/10                         | 150                       | 2.74                        | 0.28  | 343                        | 35 | 88                         | 9   | 108    | 11 |
|              |                                                 |      |                                                  |        | 1/15                         | 100                       | 4.12                        | 0.42  | 441                        | 45 | 108                        | 11  | 147    | 15 |
|              |                                                 |      |                                                  |        | 1/20                         | 75                        | 5.49                        | 0.56  | 539                        | 55 | 137                        | 14  | 186    | 19 |
|              |                                                 |      |                                                  |        | 1/30                         | 50                        | 8.33                        | 0.85  | 686                        | 70 | 177                        | 18  | 245    | 25 |
|              |                                                 |      |                                                  |        | 1/40                         | 37.5                      | 10.8                        | 1.1   | 784                        | 80 | 196                        | 20  | 275    | 28 |
|              |                                                 |      |                                                  |        | 1/50                         | 30                        | 13.7                        | 1.4   | 882                        | 90 | 226                        | 23  | 294    | 30 |
|              |                                                 |      |                                                  |        | 1/60                         | 25                        | 16.7                        | 1.7   | 882                        | 90 | 226                        | 23  | 294    | 30 |
|              | Φ20D<br>(6)                                     | B-22 | B-29                                             | 1/80   | 18.8                         | 20.6                      | 2.1                         | 1270  | 130                        | /  | /                          | 324 | 33     |    |
|              |                                                 |      |                                                  | 1/100  | 15                           | 26.5                      | 2.7                         | 1270  | 130                        | /  | /                          | 324 | 33     |    |
|              |                                                 |      |                                                  | ※1/120 | 12.5                         | 31.4                      | 3.2                         | 1370  | 140                        | /  | /                          | 343 | 35     |    |
|              |                                                 |      |                                                  | ※1/160 | 9.4                          | 42.1                      | 4.3                         | 1370  | 140                        | /  | /                          | 343 | 35     |    |
|              |                                                 |      |                                                  | ※1/200 | 7.5                          | 52.9                      | 5.4                         | 1370  | 140                        | /  | /                          | 343 | 35     |    |
|              |                                                 |      |                                                  | ※1/240 | 6.3                          | 53.9                      | 5.5                         | 1370  | 140                        | /  | /                          | 343 | 35     |    |

Note: 1. Allow O.H.L to be the value of output shaft end face at 10mm. (注) 1.容許O.H.L為輸出軸端面10mm位置的數值。  
2. ※ 標記為轉矩力受限機型。 2. ※ 標記為轉矩力受限機型。

Variable speed motor/NO variable speed motor 調速電機/非調速電機 (防護等級: IP20)



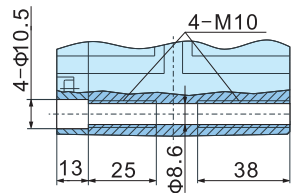
Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機  
(防護等級: IP65)



Note: See page64 for detailed demensions of output shaft.  
(注): 實心軸部詳細尺寸見64頁。

► Detailed drawing of mounting surface fixing 安裝面固定用螺孔詳細圖 (標準規格) screw holes (standard specifications)

■ Diameter of axle 軸徑:  $\phi 15$  (輸出軸內徑:  $\phi 15$ )



90W  
1-PHASE/3-PHASE  
單相/三相

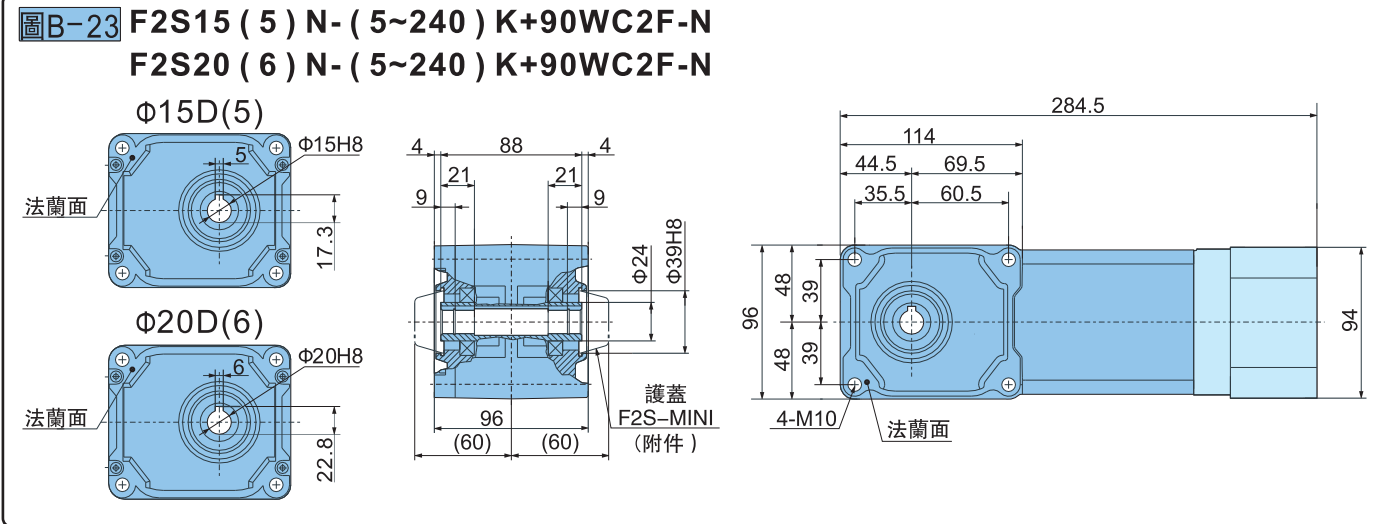


F2S15 ( 5 ) N- ( 5~240 ) K+90WC2-T  
F2S20 ( 6 ) N- ( 5~240 ) K+90WC2-T

| Power<br>功 率 | Rated Voltage<br>電 壓（V）                         |      | Rated Frequency<br>頻 率（Hz）                       |      | Rated Currment<br>額定電流（A） |                           | Rated Speed<br>額定轉速（rpm）                    |      | Insucation class<br>絕緣等級   |     | Protection class<br>防護等級   |     |
|--------------|-------------------------------------------------|------|--------------------------------------------------|------|---------------------------|---------------------------|---------------------------------------------|------|----------------------------|-----|----------------------------|-----|
| 90W          | 380                                             |      | 50                                               |      | 0.26                      |                           | 1300                                        |      | B                          |     | 20 65                      |     |
|              | 220                                             |      | 50                                               |      | 0.55                      |                           | 1300                                        |      |                            |     |                            |     |
|              |                                                 |      |                                                  |      |                           |                           |                                             |      |                            |     |                            |     |
| Power<br>功 率 | Dimension drawing<br>of Hollow shaft<br>中空軸 外形圖 |      | Dimension drawing<br>of Solid shaft<br>實心軸軸部 尺寸圖 |      | Ratio<br>減速比              | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力<br>N・m      kgf・m |      | Output O.H.L<br>輸出軸容許O.H.L |     | Output shaft<br>輸出軸容許軸向力負荷 |     |
|              |                                                 |      |                                                  |      |                           | 50Hz                      | 50Hz                                        | 50Hz | N                          | kgf | N                          | kgf |
| 90W          | Φ15D<br>(5)                                     | B-23 | Φ18d<br>(6)                                      | B-29 | 1/5                       | 300                       | 2.75                                        | 0.28 | 330                        | 33  | 79                         | 8   |
|              |                                                 |      |                                                  |      | 1/10                      | 150                       | 4.12                                        | 0.42 | 441                        | 45  | 108                        | 11  |
|              |                                                 |      |                                                  |      | 1/15                      | 100                       | 6.17                                        | 0.63 | 588                        | 60  | 147                        | 15  |
|              |                                                 |      |                                                  |      | 1/20                      | 75                        | 8.33                                        | 0.85 | 735                        | 75  | 186                        | 19  |
|              |                                                 |      |                                                  |      | 1/30                      | 50                        | 12.7                                        | 1.3  | 980                        | 100 | 245                        | 25  |
|              |                                                 |      |                                                  |      | 1/40                      | 37.5                      | 16.7                                        | 1.7  | 1080                       | 110 | 275                        | 28  |
|              | Φ20D<br>(6)                                     | B-24 | 1/50                                             |      | 30                        | 20.6                      | 2.1                                         | 1180 | 120                        | 294 | 30                         |     |
|              |                                                 |      | 1/60                                             |      | 25                        | 24.5                      | 2.5                                         | 1180 | 120                        | 294 | 30                         |     |
|              |                                                 |      | 1/80                                             |      | 18.8                      | 31.4                      | 3.2                                         | 1270 | 130                        | 324 | 33                         |     |
|              |                                                 |      | 1/100                                            |      | 15                        | 39.2                      | 4.0                                         | 1270 | 130                        | 324 | 33                         |     |
|              |                                                 |      | 1/120                                            |      | 12.5                      | 47.0                      | 4.8                                         | 1370 | 140                        | 343 | 35                         |     |
|              |                                                 |      | ※1/160                                           |      | 9.4                       | 53.9                      | 5.5                                         | 1370 | 140                        | 343 | 35                         |     |
|              |                                                 |      | ※1/200                                           |      | 7.5                       | 53.9                      | 5.5                                         | 1370 | 140                        | 343 | 35                         |     |
|              |                                                 |      | ※1/240                                           |      | 6.3                       | 53.9                      | 5.5                                         | 1370 | 140                        | 343 | 35                         |     |

Note: 1. Allow O.H.L to be the value of output shaft end face at 10mm. (注) 1.容許O.H.L為輸出軸端面10mm位置的數值。  
2. ※ Marked as torque limited. 2. ※標記為轉矩力受限機型。

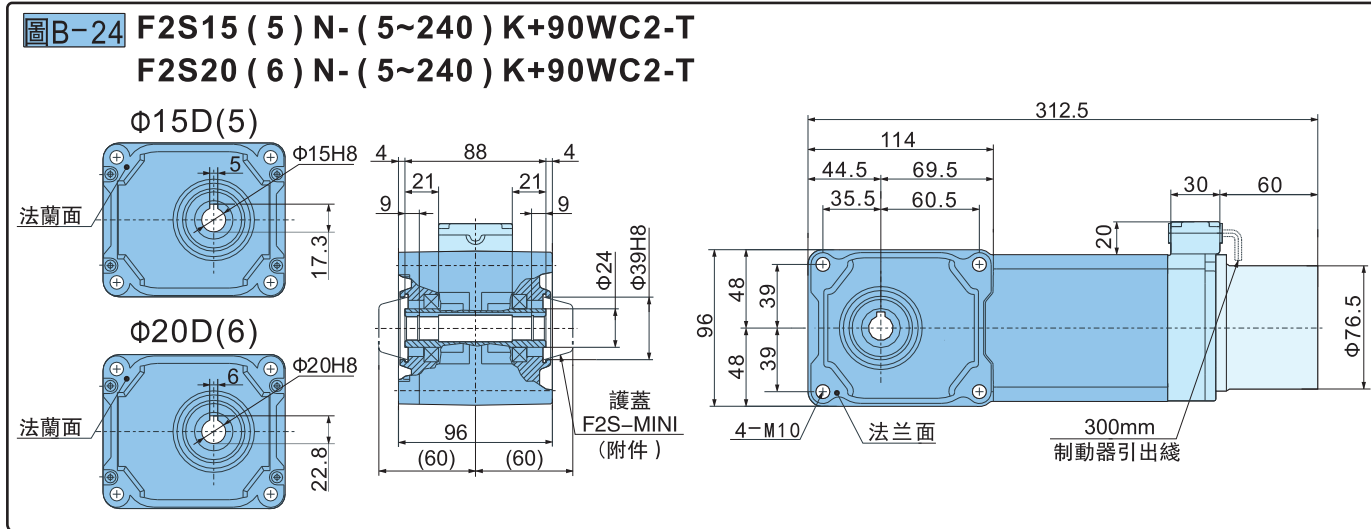
Variable speed motor/NO variable speed motor 調速電機/非調速電機 (防護等級: IP20)





Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機

(防護等級: IP65)

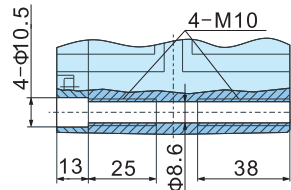


Note: See page64 for detailed demensions of output shaft.

(注)：實心軸部詳細尺寸見64頁。

➤ Detailed drawing of mounting surface fixing screw holes (standard specifications)

■ Diameter of axle      軸徑:  $\phi 15$  (輸出軸內徑:  $\phi 15$ )



**120W**  
**1-PHASE/3-PHASE**  
**單相/三相**



**F2S15 ( 5 ) N - ( 5~240 ) K+120WC2-N**  
**F2S20 ( 6 ) N - ( 5~240 ) K+120WC2-N**

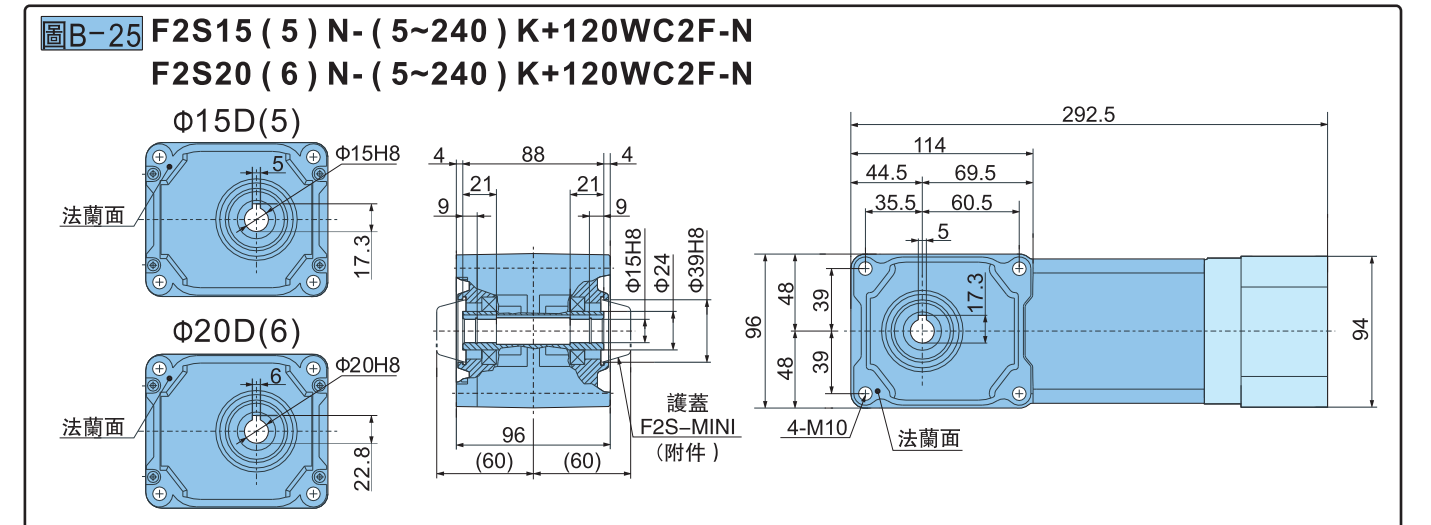
| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Frequency<br>頻率 (Hz) | Rated Current<br>額定電流 (A) | Rated Speed<br>額定轉速 (rpm) | Insulation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|----------------------------|---------------------------|---------------------------|--------------------------|--------------------------|
| 120W        | 380                     | 50                         | 0.35                      | 1300                      | B                        | 20 65                    |
|             | 220                     | 50                         | 0.80                      | 1300                      |                          |                          |

| Power<br>功 率 | Dimension drawing<br>of Hollow shaft<br>中空軸 外形圖 |      | Dimension drawing<br>of Solid shaft<br>實心軸軸部 尺寸圖 |      | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     | Output shaft<br>輸出軸容許軸向力負荷 |     |
|--------------|-------------------------------------------------|------|--------------------------------------------------|------|--------------|---------------------------|---------------------------|---------|----------------------------|-----|----------------------------|-----|
|              |                                                 |      |                                                  |      |              |                           | N · m                     | kgf · m |                            |     |                            |     |
|              |                                                 |      |                                                  |      |              | 50Hz                      | 50Hz                      | 50Hz    | N                          | kgf | N                          | kgf |
| 120W         | Φ15D<br>(5)                                     | B-25 | Φ18d<br>(6)                                      | B-29 | 1/5          | 300                       | 3.6                       | 0.37    | 330                        | 33  | 79                         | 8   |
|              |                                                 |      |                                                  |      | 1/10         | 150                       | 5.5                       | 0.56    | 441                        | 45  | 108                        | 11  |
|              |                                                 |      |                                                  |      | 1/15         | 100                       | 8.24                      | 0.84    | 588                        | 60  | 147                        | 15  |
|              |                                                 |      |                                                  |      | 1/20         | 75                        | 11.13                     | 1.14    | 735                        | 75  | 186                        | 19  |
|              |                                                 |      |                                                  |      | 1/30         | 50                        | 16.96                     | 1.73    | 980                        | 100 | 245                        | 25  |
|              |                                                 |      |                                                  |      | 1/40         | 37.5                      | 22.33                     | 2.78    | 1080                       | 110 | 275                        | 28  |
|              | Φ20D<br>(6)                                     | B-26 |                                                  |      | 1/50         | 30                        | 27.52                     | 2.81    | 1180                       | 120 | 294                        | 30  |
|              |                                                 |      |                                                  |      | 1/60         | 25                        | 32.76                     | 3.34    | 1180                       | 120 | 294                        | 30  |
|              |                                                 |      |                                                  |      | 1/80         | 18.8                      | 41.98                     | 4.28    | 1270                       | 130 | 324                        | 33  |
|              |                                                 |      |                                                  |      | 1/100        | 15                        | 52.39                     | 5.34    | 1270                       | 130 | 324                        | 33  |
|              |                                                 |      |                                                  |      | ※1/120       | 12.5                      | 53.9                      | 5.5     | 1370                       | 140 | 343                        | 35  |
|              |                                                 |      |                                                  |      | ※1/160       | 9.4                       | 53.9                      | 5.5     | 1370                       | 140 | 343                        | 35  |
|              |                                                 |      |                                                  |      | ※1/200       | 7.5                       | 53.9                      | 5.5     | 1370                       | 140 | 343                        | 35  |
|              |                                                 |      |                                                  |      | ※1/240       | 6.3                       | 53.9                      | 5.5     | 1370                       | 140 | 343                        | 35  |
|              |                                                 |      |                                                  |      |              |                           |                           |         |                            |     |                            |     |

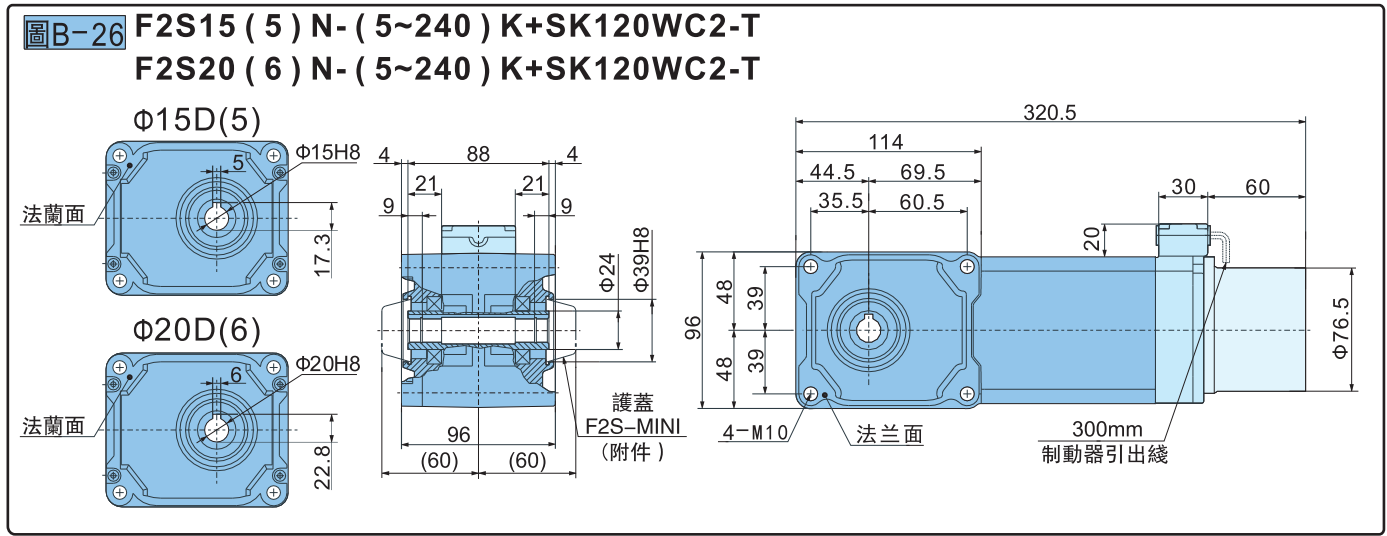
Note: 1. Allow O.H.L to be the value of output shaft end face at 10mm.  
2. ※ Marked as torque limited.

(注) 1. 容許O.H.L為輸出軸端面10mm位置的數值。  
2. ※標記為轉矩力受限機型。

Variable speed motor/NO variable speed motor 調速電機/非調速電機 (防護等級: IP20)



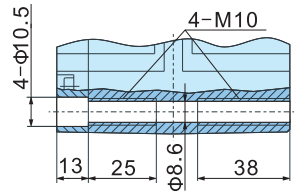
Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機 (防護等級: IP65)



Note: See page64 for detailed demensions of output shaft.  
( 注 ) : 實心軸部詳細尺寸見64頁。

► Detailed drawing of mounting surface fixing 安裝面固定用螺孔詳細圖 (標準規格) screw holes (standard specifications)

■ Diameter of axle 軸徑:Φ15 (輸出軸內徑:Φ15)



140W  
1-PHASE/3-PHASE  
單相/三相

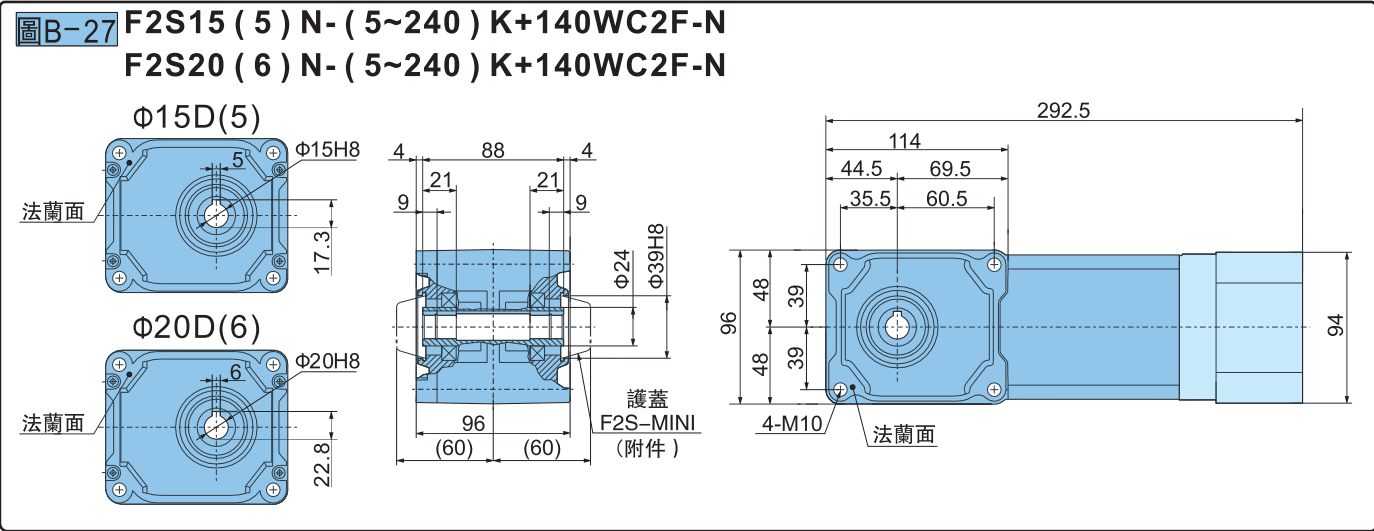


F2S15 ( 5 ) N- ( 5~240 ) K+140WC2-N  
F2S20 ( 6 ) N- ( 5~240 ) K+140WC2-N

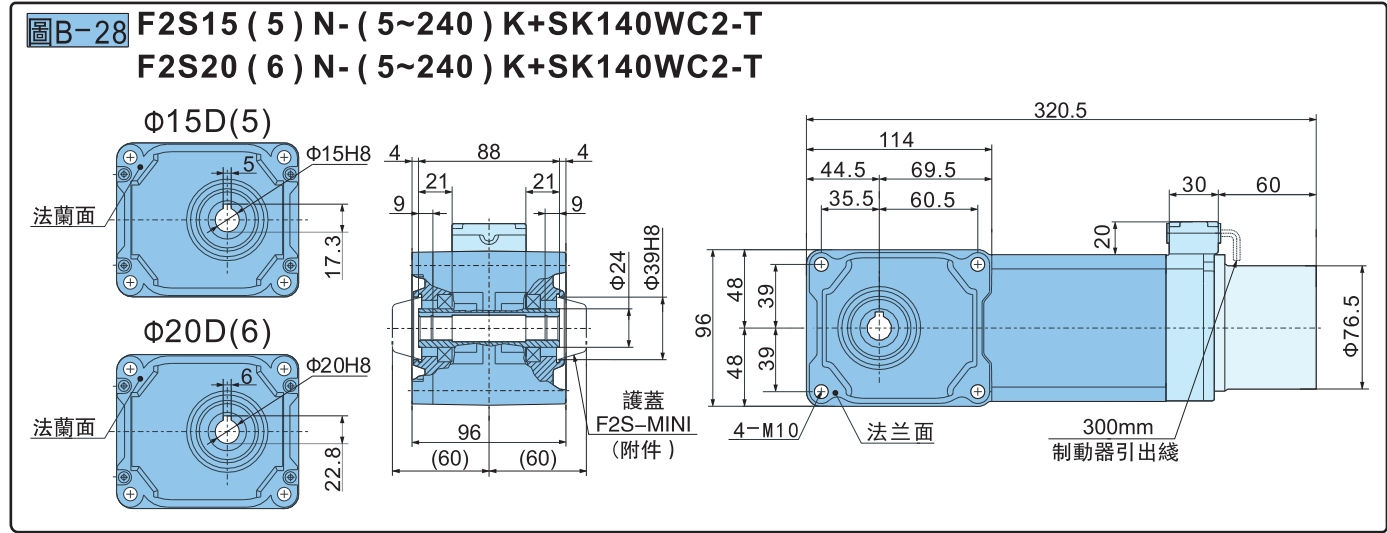
| Power<br>功 率 |                                                 | Rated Voltage<br>電 壓 ( V ) |                                                  | Rated Frequency<br>頻 率 ( Hz ) |              | Rated Currment<br>額定電流 ( A ) |                           | Rated Speed<br>額定轉速 ( rpm ) |                            | Insucation class<br>絕緣等級 |                            | Protection class<br>防護等級 |  |
|--------------|-------------------------------------------------|----------------------------|--------------------------------------------------|-------------------------------|--------------|------------------------------|---------------------------|-----------------------------|----------------------------|--------------------------|----------------------------|--------------------------|--|
| 140W         |                                                 | 380                        |                                                  | 50                            |              | 0.55                         |                           | 1300                        |                            | B                        |                            | 20 65                    |  |
|              |                                                 | 220                        |                                                  | 50                            |              | 1.13                         |                           | 1300                        |                            |                          |                            |                          |  |
|              |                                                 |                            |                                                  |                               |              |                              |                           |                             |                            |                          |                            |                          |  |
| Power<br>功 率 | Dimension drawing<br>of Hollow shaft<br>中空軸 外形圖 |                            | Dimension drawing<br>of Solid shaft<br>實心軸軸部 尺寸圖 |                               | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm)    | Output Torque<br>輸出軸容許轉矩力 |                             | Output O.H.L<br>輸出軸容許O.H.L |                          | Output shaft<br>輸出軸容許軸向力負荷 |                          |  |
|              |                                                 |                            |                                                  |                               |              |                              | N · m                     | kgf · m                     |                            |                          |                            |                          |  |
|              |                                                 |                            |                                                  |                               |              | 50Hz                         | 50Hz                      | 50Hz                        | N                          | kgf                      | N                          | kgf                      |  |
| 140W         | Φ15D<br>(5)                                     | B-27                       | Φ18d<br>(6)                                      | B-29                          | 1/5          | 300                          | 4.27                      | 0.43                        | 330                        | 33                       | 79                         | 8                        |  |
|              |                                                 |                            |                                                  |                               | 1/10         | 150                          | 6.41                      | 0.65                        | 441                        | 45                       | 108                        | 11                       |  |
|              |                                                 |                            |                                                  |                               | 1/15         | 100                          | 9.61                      | 0.98                        | 588                        | 60                       | 147                        | 15                       |  |
|              |                                                 |                            |                                                  |                               | 1/20         | 75                           | 12.97                     | 1.32                        | 735                        | 75                       | 186                        | 19                       |  |
|              |                                                 |                            |                                                  |                               | 1/30         | 50                           | 19.77                     | 2.02                        | 980                        | 100                      | 245                        | 25                       |  |
|              |                                                 |                            |                                                  |                               | 1/40         | 37.5                         | 26.03                     | 2.66                        | 1080                       | 110                      | 275                        | 28                       |  |
|              | Φ20D<br>(6)                                     | B-28                       | Φ18d<br>(6)                                      | B-29                          | 1/50         | 30                           | 32.07                     | 3.27                        | 1180                       | 120                      | 294                        | 30                       |  |
|              |                                                 |                            |                                                  |                               | 1/60         | 25                           | 38.18                     | 3.89                        | 1180                       | 120                      | 294                        | 30                       |  |
|              |                                                 |                            |                                                  |                               | 1/80         | 18.8                         | 48.93                     | 4.99                        | 1270                       | 130                      | 324                        | 33                       |  |
|              |                                                 |                            |                                                  |                               | ※1/100       | 15                           | 53.9                      | 5.5                         | 1270                       | 130                      | 324                        | 33                       |  |
|              |                                                 |                            |                                                  |                               | ※1/120       | 12.5                         | 53.9                      | 5.5                         | 1370                       | 140                      | 343                        | 35                       |  |
|              |                                                 |                            |                                                  |                               | ※1/160       | 9.4                          | 53.9                      | 5.5                         | 1370                       | 140                      | 343                        | 35                       |  |
|              |                                                 |                            |                                                  |                               | ※1/200       | 7.5                          | 53.9                      | 5.5                         | 1370                       | 140                      | 343                        | 35                       |  |
|              |                                                 |                            |                                                  |                               | ※1/240       | 6.3                          | 53.9                      | 5.5                         | 1370                       | 140                      | 343                        | 35                       |  |

Note: 1.Allow O.H.L to be the value of output shaft end face at 10mm. ( 注 ) 1.容許O.H.L為輸出軸端面10mm位置的數值。  
2.※標記為轉矩力受限機型。 2.※標記為轉矩力受限機型。

Variable speed motor/NO variable speed motor 調速電機/非調速電機 (防護等級: IP20)



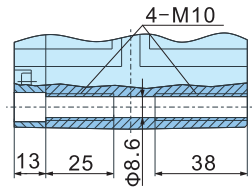
Variable speed brake motor/NO variable speed brake motor 調速剎車電機/非調速剎車電機  
( 防護等級: IP65 )



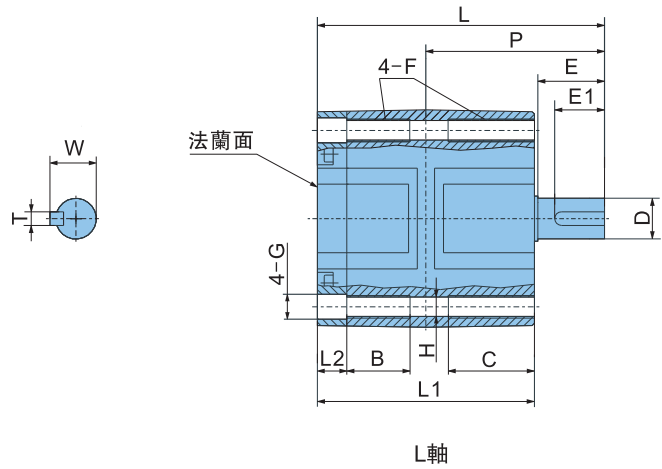
Note: See page64 for detailed dimensions of output shaft.  
( 注 ) : 實心軸部詳細尺寸見64頁。

► Detailed drawing of mounting surface fixing 安裝面固定用螺孔詳細圖 ( 標準規格 )  
screw holes (standard specifications)

■ Diameter of axle 軸徑:Φ15 ( 輸出軸內徑: Φ15 )

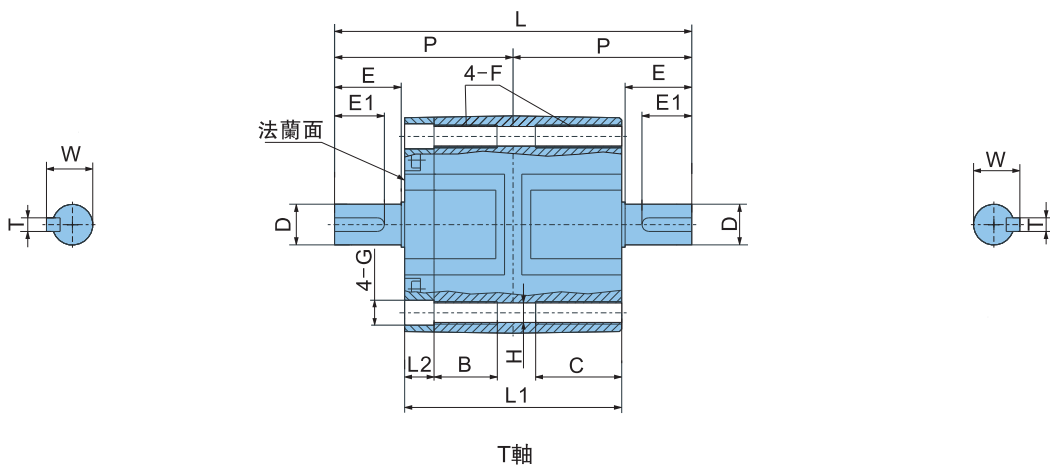


圖B-29-1 Solid shaft details 實心軸部詳細



| D<br>(H7) | W    | T | E  | E1 | P    | F   | B  | C    | L2   | G     | H    | L   | L1 |
|-----------|------|---|----|----|------|-----|----|------|------|-------|------|-----|----|
| Φ15       | 17   | 5 | 27 | 24 | 68.5 | M8  | 20 | 32.5 | 12.5 | Φ8.5  | Φ6.8 | 110 | 81 |
| Φ18       | 20.5 | 6 | 30 | 27 | 79   | M10 | 13 | 25   | 38   | Φ10.5 | Φ8.6 | 128 | 96 |

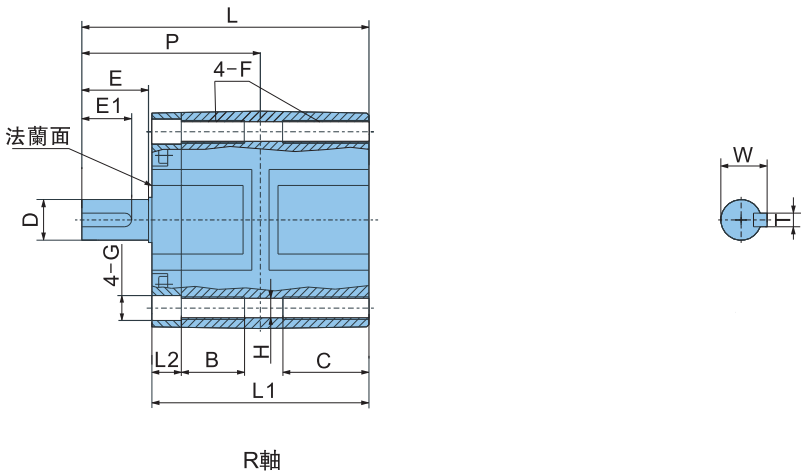
圖B-29-2 Solid shaft details 實心軸部詳細



| D<br>(H7) | W    | T | E  | E1 | P    | F   | B  | C    | L2   | G     | H    | L   | L1 |
|-----------|------|---|----|----|------|-----|----|------|------|-------|------|-----|----|
| Φ15       | 17   | 5 | 27 | 24 | 68.5 | M8  | 20 | 32.5 | 12.5 | Φ8.5  | Φ6.8 | 137 | 81 |
| Φ18       | 20.5 | 6 | 30 | 27 | 79   | M10 | 13 | 25   | 38   | Φ10.5 | Φ8.6 | 158 | 96 |



圖B-29-3 Solid shaft details 實心軸部詳細



R軸

| D<br>(H7) | W    | T | E  | E1 | P    | F   | B  | C    | L2   | G     | H    | L   | L1 |
|-----------|------|---|----|----|------|-----|----|------|------|-------|------|-----|----|
| Φ15       | 17   | 5 | 27 | 24 | 68.5 | M8  | 20 | 32.5 | 12.5 | Φ8.5  | Φ6.8 | 137 | 81 |
| Φ18       | 20.5 | 6 | 30 | 27 | 79   | M10 | 13 | 25   | 38   | Φ10.5 | Φ8.6 | 158 | 96 |

F3 Series

HYPOID GEAR REDUCTION MOTOR

F3系列中型準雙曲面齒輪減速電機

長方同心法蘭型

0.1kW~3.7kW

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共同引領世界

Drive the world together

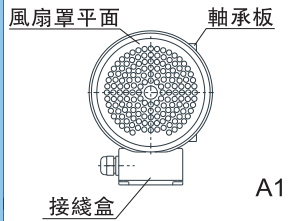
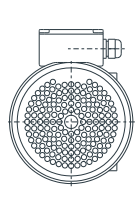
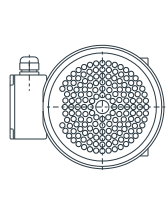
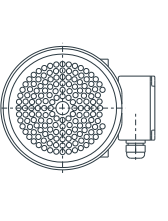
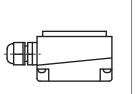
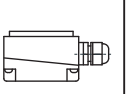
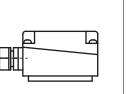
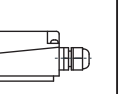
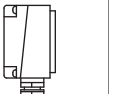
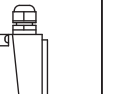
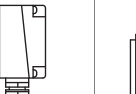
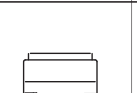
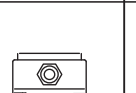
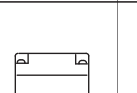
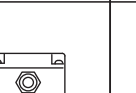
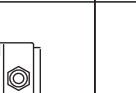
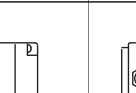
DESCRIPTION OF MODEL 型號說明

A - F3 S 35 ( 7 ) N M25 30K - X101 + 200 W - S3 F - X101 -  
0 1 2 3 4 5 6 7 8 9 10 11 12  
A1 LD ( G ) - IP  
13 14 15 16

|    |                                                   |                                                                                                                                                   |                                                                             |
|----|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 0  | Gear case type 齒輪箱類型                              | A: type A B: type B A: A 型箱 B: B 型箱                                                                                                               |                                                                             |
| 1  | Type code 機型系列代號                                  | F3: F3 Series hypoid reduction motor F3: F3系列中型準雙曲面齒輪減速機                                                                                          |                                                                             |
| 2  | Output shaft type 輸出軸類型                           | S: Hollow shaft S: 空心軸                                                                                                                            |                                                                             |
|    |                                                   | F: Solid shaft F: 實心軸                                                                                                                             |                                                                             |
| 3  | Output shaft DIA 輸出軸孔徑                            | 25 ( 8 ) : Φ25 ( 鍵槽尺寸8 ) 30 ( 8 ) : Φ30 ( 8 ) 35 ( 10 ) : Φ35 ( 10 )<br>45 ( 14 ) : Φ45 ( 14 ) 55 ( 16 ) : Φ55 ( 16 )                             |                                                                             |
|    | Output shaft DIA 輸出軸軸徑                            | 22 ( 6 ) : Φ22 ( 鍵槽尺寸6 ) 28 ( 8 ) : Φ28 ( 8 ) 32 ( 10 ) : Φ32 ( 10 )<br>40 ( 12 ) : Φ40 ( 12 ) 50 ( 14 ) : Φ50 ( 14 )                             |                                                                             |
| 4  | Axis configuration 軸配置<br>( 僅限F3F型號, F3S型號為 “N” ) | Viewed from input shaft output shaft is on the left<br>L:從輸入軸一側觀察,輸出軸位于左側                                                                         | Viewed from input shaft output shaft is on both sides<br>T:從輸入軸一側觀察,輸出軸位于兩側 |
| 5  | Middle gear head 中間箱                              | M25 ( 140轉110 ) M30 ( 160轉120 ) M35 ( 175轉140 )                                                                                                   |                                                                             |
| 6  | Gear ratio 減速比                                    | 5: 1:5 7.5: 1:7.5 10: 1:10 20: 1:20 30: 1:30 x: 1:x                                                                                               |                                                                             |
| 7  | Flange type 法蘭形式                                  | x101 ( x110、x120、140、160、175 )B5(B5-63、B5-71、B5-80、B5-90、B5-112M)                                                                                 |                                                                             |
|    |                                                   | ( Not specified for shaft input 未注為軸輸入型 )                                                                                                         |                                                                             |
| 8  | Rated power 額定功率                                  | 100: 100W 200: 200W 400: 400W 750: 750W x: xW                                                                                                     |                                                                             |
| 9  | Brake unit 剎車器形式                                  | W: No brake motor 非剎車電機 B: Brake motor 剎車電機<br>YB: Brake with manual release 帶手動釋放剎車                                                              |                                                                             |
| 10 | Rated voltage 額定電壓                                | C1: 1-Phase 單相 110V C2: 1-Phase 單相220V<br>S2: 3-Phase 三相 220V S3: 3-Phase 三相380V<br>S4: 3-Phase 三相 440V S2/3: 3-Phase三相220/380V                   |                                                                             |
| 11 | Code of fan 風扇代號                                  | F: Common 普通風扇<br>S: Forced 強制風扇<br>※No make means motor without fan 無風扇不標                                                                        |                                                                             |
| 12 | Flange type 法蘭形式                                  | x101 ( x110、x120、140、160、175 )                                                                                                                    |                                                                             |
| 13 | Terminal box direction form output shaft 從軸端看盒位置  | A1: Down direction 下方向<br>A2: Top direction 上方向<br>A3: Left direction 左方向<br>A4: Right direction 右方向<br>Remark備注: A1direction is standardA1 是標配方向 |                                                                             |
| 14 | lead wire direction form output shaft 從軸端看出線方向    | L: Left direction 向左方向 R: Right direction 向右方向<br>T: Top direction 向上方向 D: Down direction 向下方向<br>F: Forward direction 向前方向 B: Back 向后方向          |                                                                             |
| 15 | Color 顏色                                          | M:Medium gray 中灰色 G: Green 綠色<br>R: Red 紅色 W: White 灰白色                                                                                           |                                                                             |
| 16 | Protection Class 防護等級                             | 20 54                                                                                                                                             |                                                                             |

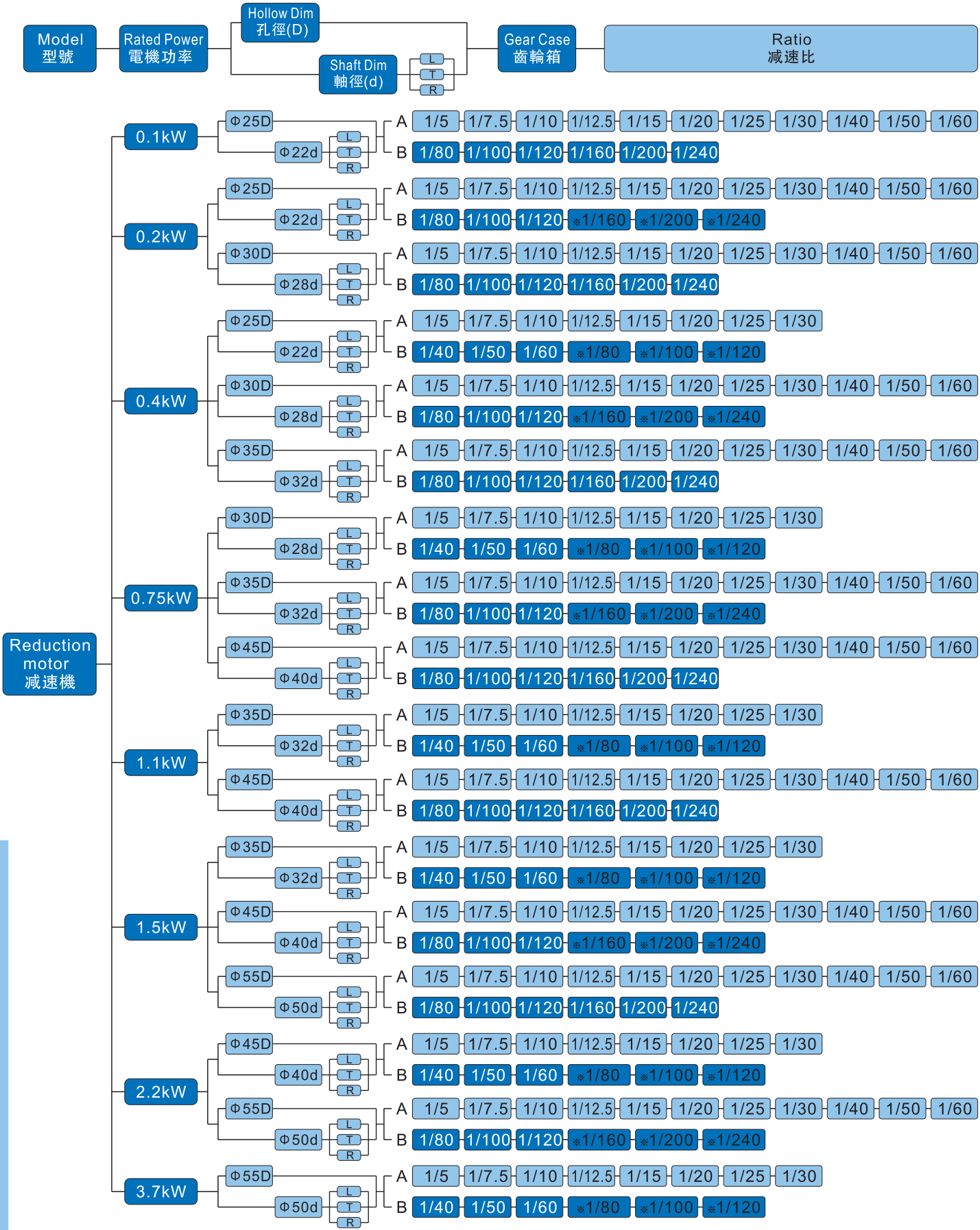
DESCRIPTION OF MODEL 型號說明

Terminal box direction, lead wire direction and ventilation installation diagram 接線盒位置和引出線方向示意圖。

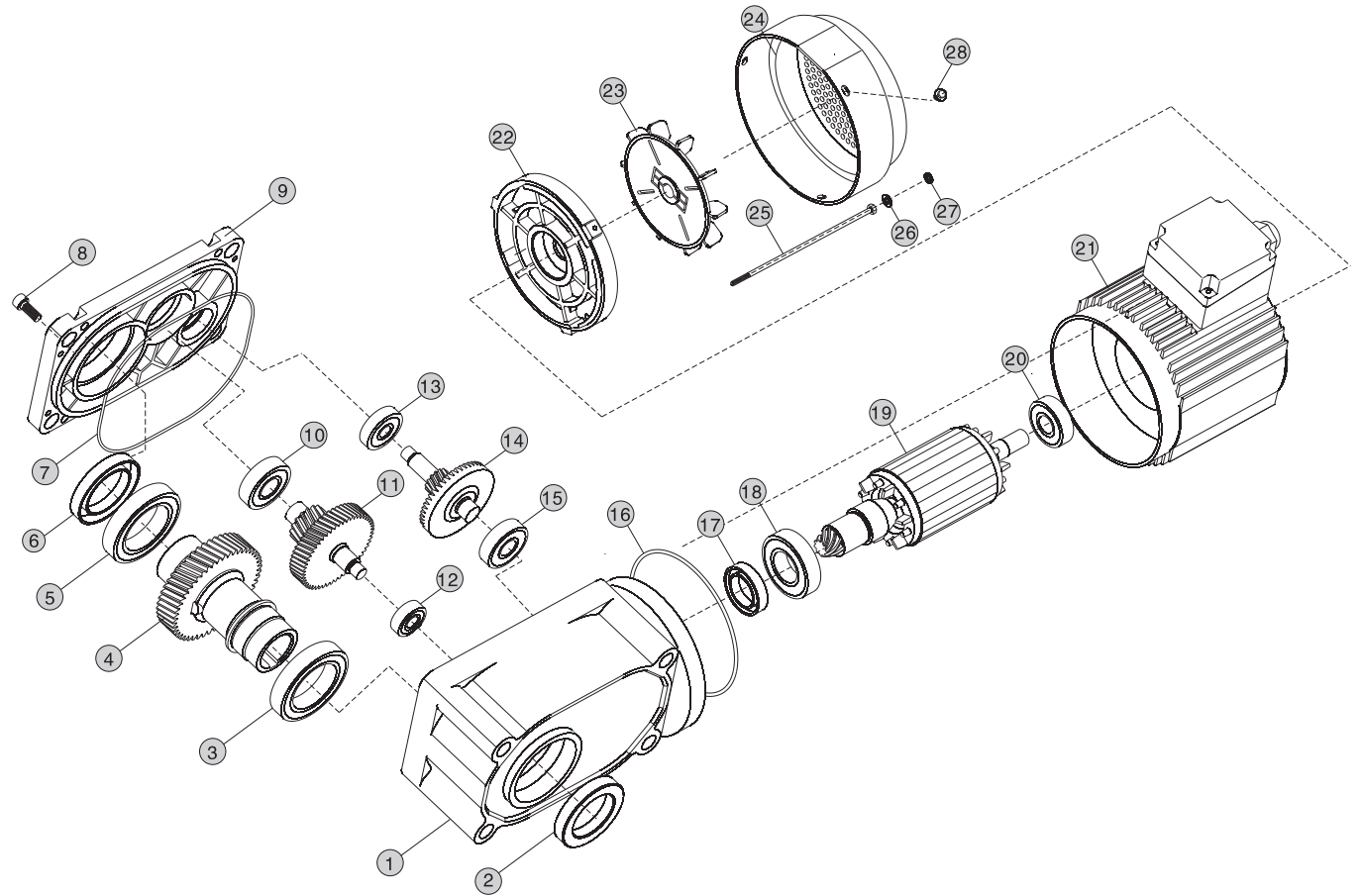
|                                                                         |                                                                                        |                                                                                        |                                                                                         |                                                                                        |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| View the terminal box position from the input shaft end.<br>從輸入軸端看接線盒方位 |  A1 |  A2 |  A 3 |  A4 |
|                                                                         |  DL |  DR |  TL  |  TR |
| Lead wire direction from output shaft<br>從軸端看出線方向                       |  LD |  LT |  RD  |  RT |
|                                                                         |  DF |  DB |  TF  |  TB |
|                                                                         |  LF |  LB |  RF  |  RB |

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Standard Model Composition Table 標準機型構成表



PRODUCT STRUCTURE DIAGRAM 產品結構圖



Detail parts list 零件清單

| No | Denomination<br>零件名稱   | No | Denomination<br>零件名稱 | No | Denomination<br>零件名稱  |
|----|------------------------|----|----------------------|----|-----------------------|
| 1  | Housing 本體             | 11 | 2nd main gear 二軸組件   | 21 | Stator 定子總成           |
| 2  | Oil seal 油封            | 12 | Ball bearing 軸承      | 22 | Rear cover 後端蓋        |
| 3  | Ball bearing 軸承        | 13 | Ball bearing 軸承      | 23 | Fan 風葉                |
| 4  | Output main gear 輸出輪組件 | 14 | 1st main gear 一輪組件   | 24 | Fan cover 風罩          |
| 5  | Ball bearing 軸承        | 15 | Ball bearing 軸承      | 25 | Long bolt-motor 電機長絲杆 |
| 6  | Oil seal 油封            | 16 | O-ring O型密封圈         | 26 | Plain washer 平墊       |
| 7  | O-ring O型密封圈           | 17 | Oil seal 油封          | 27 | Spring washer 彈墊      |
| 8  | Inner hex.screw 內六角螺釘  | 18 | Ball bearing 軸承      | 28 | Cross screw 十字螺釘      |
| 9  | Bearing plate 軸承板      | 19 | Rotor 轉子             |    |                       |
| 10 | Ball bearing 軸承        | 20 | Ball bearing 軸承      |    |                       |



STANDARD SPECIFICATIONS 標準規格

|                     |                                |                                                                     |                   |  |
|---------------------|--------------------------------|---------------------------------------------------------------------|-------------------|--|
| Motor<br>電機         | Phase<br>相數                    | Single phase 單相                                                     | Three phases 三相   |  |
|                     | Power<br>功率                    | 0.1, 0.2, 0.4, 0.75, 1.1, 1.5, 2.2, 3.7kW                           |                   |  |
|                     |                                | No brake 、with brake 無制動器、附帶制動器                                     |                   |  |
|                     | Rated power<br>電源              | 220V/50Hz                                                           | 380V/50Hz         |  |
|                     | Poles of the motor<br>電機極數     | 4                                                                   |                   |  |
|                     | Protection class<br>防護等級       | IP54                                                                |                   |  |
|                     | Cooling-down method<br>冷却方式    | Self-control type 自控型（IC411）                                        |                   |  |
|                     | Starting duty<br>啟動方式          | Running capacitor 運轉電容                                              | Direct start 全壓啟動 |  |
|                     | Time duty<br>工作制式              | Continuous running 連續運轉                                             |                   |  |
|                     | Insucation class<br>絕緣         | Option of B class or Fclass B級或F級                                   |                   |  |
|                     | Action<br>制動器方式                | Non-excitation action type、DC electromagnetic brake 無勵磁動作型、直流電磁制動器  |                   |  |
|                     | Ratio<br>減速比                   | 1/5~1/240                                                           |                   |  |
| Reducer<br>減速器      | Lubricating<br>潤滑方式            | Lubricant 封閉 潤滑油                                                    |                   |  |
|                     | Shaft end key way<br>軸端鍵槽部     | GB/T1095-2003: 附帶輸出軸鍵（鍵為普通級別）                                       |                   |  |
|                     | Installation site<br>安裝場所      | Less dust .nowater drench place 室內塵埃較少、無水淋的場所                       |                   |  |
| Environment<br>適用環境 | Temperature<br>溫度              | -10℃~+40℃                                                           |                   |  |
|                     | Humidity<br>濕度                 | Below 85% 85%以下（無結霜）                                                |                   |  |
|                     | Environment<br>環境              | Non-corrosive gas、explosive gas、water vapor etc 無腐蝕性氣體、爆炸性氣體，水蒸氣等   |                   |  |
|                     | Installation direction<br>安裝方向 | No horizontal、vertical、tilt mounting restrictions 無水平、垂直、傾斜等安裝角度的限制 |                   |  |
|                     | Color<br>顏色                    | Medium中灰色    Green 綠色    Red 紅色    White 白灰色                        |                   |  |

motor characteristic 電機特性

| Phase<br>相數                                                     | Power<br>功率 | Poles of<br>the motor<br>電機<br>極數 | Rated<br>Frequency<br>頻率 ( Hz ) | Rated<br>Voltage<br>電壓 ( V ) | Rated power<br>額定電流值 ( A ) | Rated power<br>額定轉速 ( rpm ) | 20℃時，直流側制動器<br>電流值 ( A,參考值 ) |
|-----------------------------------------------------------------|-------------|-----------------------------------|---------------------------------|------------------------------|----------------------------|-----------------------------|------------------------------|
| Singe<br>phase<br>/<br>Three<br>phases<br>單<br>相<br>/<br>三<br>相 | 0.1kW       | 4                                 | 50                              | 220<br>( 380 )               | 0.52<br>( 0.31 )           | 1400                        | 0.19                         |
|                                                                 | 0.2kW       |                                   |                                 |                              | 0.92<br>( 0.56 )           |                             | 0.19                         |
|                                                                 | 0.4kW       |                                   |                                 |                              | 1.8<br>( 1.0 )             |                             | 0.19                         |
|                                                                 | 0.75kW      |                                   |                                 |                              | 3.2<br>( 1.8 )             |                             | 0.28                         |
|                                                                 | 1.1kW       |                                   |                                 |                              | 4.4<br>( 2.5 )             |                             | 0.28                         |
|                                                                 | 1.5kW       |                                   |                                 |                              | 5.6<br>( 3.3 )             |                             | 0.28                         |
|                                                                 | 2.2kW       |                                   |                                 |                              | 8.0<br>( 4.6 )             |                             | 0.28                         |
|                                                                 | 3.7kW       |                                   |                                 |                              | 10.8<br>( 7.5 )            |                             | 0.35                         |

注 ) 額定電流值 ( ) 內為380V時的值。  
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0.1kW

1-PHASE/3-PHASE

單相/三相



A-F3S25 ( 8 ) N- ( 5~60 ) K-X101+100WS3F

A-F3F22 ( 6 ) T- ( 5~60 ) K-X101+100WS3F

B-F3S25 ( 8 ) N- ( 70~240 ) K-X101+100WS3F

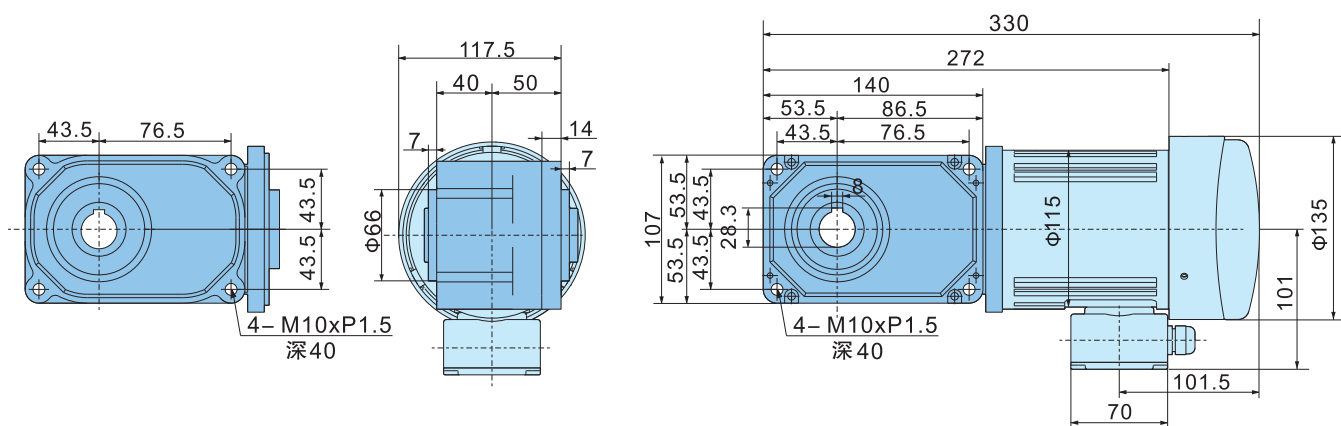
B-F3F22 ( 6 ) T- ( 70~240 ) K-X101+100WS3F

| Power<br>功 率 |                                                 | Rated Voltage<br>電 壓 ( V ) |                                                | Rated Frequency<br>頻 率 ( Hz ) |                     | Rated Currment<br>額 定 電 流 ( A ) |                                        | Rated Speed<br>額 定 轉 速 ( rpm ) |                                                 | Insucation class<br>絕 緣 等 級 |                            | Protection class<br>防 護 等 級 |                                |     |
|--------------|-------------------------------------------------|----------------------------|------------------------------------------------|-------------------------------|---------------------|---------------------------------|----------------------------------------|--------------------------------|-------------------------------------------------|-----------------------------|----------------------------|-----------------------------|--------------------------------|-----|
| 0.1kW        |                                                 | 380                        |                                                | 50                            |                     | 0.31                            |                                        | 1400                           |                                                 | B                           |                            | 20 54                       |                                |     |
|              |                                                 | 220                        |                                                | 50                            |                     | 0.52                            |                                        | 1400                           |                                                 |                             |                            |                             |                                |     |
|              |                                                 |                            |                                                |                               |                     |                                 |                                        |                                |                                                 |                             |                            |                             |                                |     |
| Power<br>功 率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |                            | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |                               | Gear<br>case<br>齒輪箱 | Ratio<br>減速比                    | Reduction<br>ratio<br>實際減速比<br>( 分 數 ) | Speed<br>轉速(rpm)               | Output Torque<br>輸出軸容許轉矩力<br>N · m      kgf · m |                             | Output O.H.L<br>輸出軸容許O.H.L |                             | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|              |                                                 |                            |                                                |                               |                     |                                 |                                        | 50Hz                           | 50Hz                                            | 50Hz                        | N                          | kgf                         | N                              | kgf |
| 0.1kW        | Φ25D<br>(8)                                     | C-1                        | Φ22d<br>(6)                                    | C-42                          | A                   | 1/5                             | 1/5                                    | 300                            | 2.7                                             | 0.27                        | 1230                       | 125                         | 307                            | 31  |
|              |                                                 |                            |                                                |                               |                     | 1/7.5                           | 2/15                                   | 200                            | 4                                               | 0.41                        | 1370                       | 140                         | 342                            | 35  |
|              |                                                 |                            |                                                |                               |                     | 1/10                            | 1/10                                   | 150                            | 5.2                                             | 0.53                        | 1520                       | 155                         | 380                            | 39  |
|              |                                                 |                            |                                                |                               |                     | 1/12.5                          | 19/230                                 | 120                            | 6.5                                             | 0.66                        | 1620                       | 165                         | 405                            | 41  |
|              |                                                 |                            |                                                |                               |                     | 1/15                            | 16/245                                 | 100                            | 7.7                                             | 0.79                        | 1720                       | 175                         | 429                            | 44  |
|              |                                                 |                            |                                                |                               |                     | 1/20                            | 1/20                                   | 75                             | 11                                              | 1.1                         | 1860                       | 190                         | 466                            | 48  |
|              |                                                 |                            |                                                |                               |                     | 1/25                            | 29/720                                 | 60                             | 13                                              | 1.3                         | 2010                       | 205                         | 502                            | 51  |
|              |                                                 |                            |                                                |                               |                     | 1/30                            | 1/30                                   | 50                             | 16                                              | 1.6                         | 2110                       | 215                         | 527                            | 54  |
|              |                                                 |                            |                                                |                               |                     | 1/40                            | 1/40                                   | 37.5                           | 21                                              | 2.1                         | 2300                       | 235                         | 576                            | 59  |
|              |                                                 |                            |                                                |                               |                     | 1/50                            | 11/540                                 | 30                             | 25                                              | 2.6                         | 2450                       | 250                         | 613                            | 63  |
|              |                                                 | 1/60                       | 9/550                                          | 25                            | 31                  | 3.2                             | 2550                                   | 260                            | 637                                             | 65                          |                            |                             |                                |     |
|              |                                                 | B                          | 1/80                                           | 1/80                          | 18.8                | 39                              | 4                                      | 2550                           | 260                                             | 637                         | 65                         |                             |                                |     |
|              |                                                 |                            | 1/100                                          | 19/1840                       | 15                  | 49                              | 5                                      | 2550                           | 260                                             | 637                         | 65                         |                             |                                |     |
|              |                                                 |                            | 1/120                                          | 2/245                         | 12.5                | 59                              | 6                                      | 2550                           | 260                                             | 637                         | 65                         |                             |                                |     |
|              |                                                 |                            | 1/160                                          | 1/160                         | 9.4                 | 78                              | 8                                      | 2550                           | 260                                             | 637                         | 65                         |                             |                                |     |
|              |                                                 |                            | 1/200                                          | 11/2160                       | 7.5                 | 98                              | 10                                     | 2550                           | 260                                             | 637                         | 65                         |                             |                                |     |
|              |                                                 |                            | 1/240                                          | 9/2200                        | 6.3                 | 101                             | 10.3                                   | 2550                           | 260                                             | 637                         | 65                         |                             |                                |     |
|              |                                                 |                            |                                                |                               |                     |                                 |                                        |                                |                                                 |                             |                            |                             |                                |     |

Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm. ( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.※ 標記為轉矩力受限機型。3.※ 標記為轉矩力受限機型。



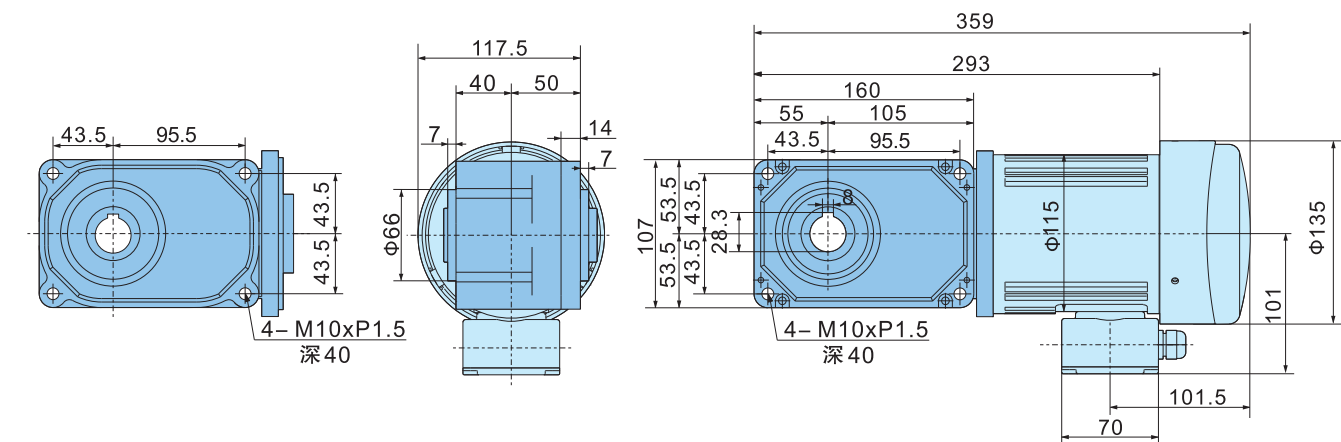
圖C-3 A-F3S25 ( 8 ) N- ( 5~60 ) K-X101+200WS3F



Note: See page 101 for detailed dimensions of output shaft.

( 注 ) : 輸出軸部詳細尺寸見101頁。

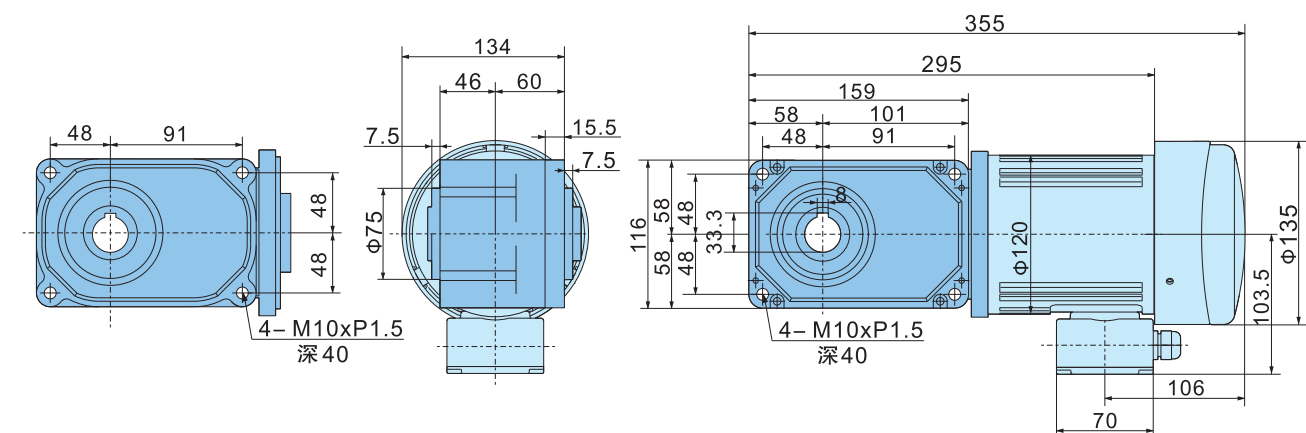
圖C-4 B-F3S25 (8) N- ( 70~240 ) K-X101+200WS3F



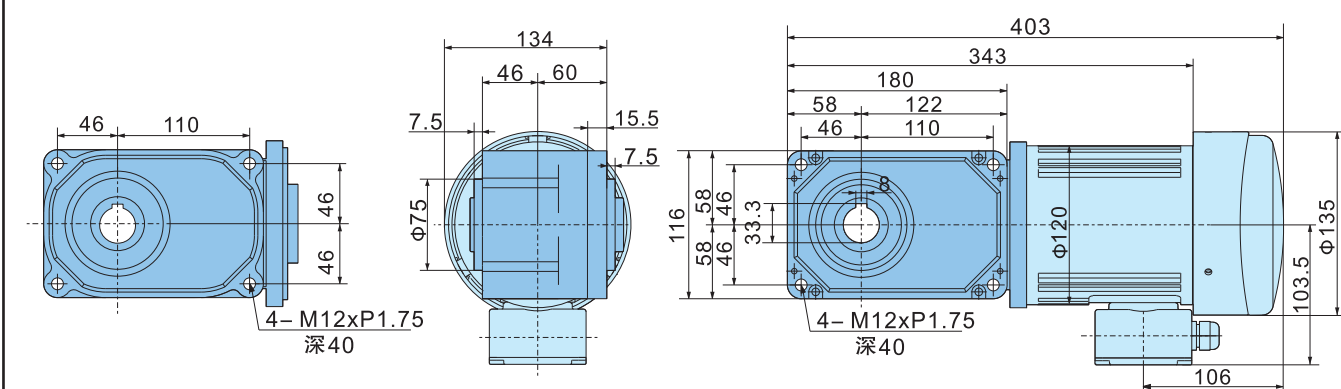
Note: See page 101 for detailed dimensions of output shaft.

( 注 ) : 輸出軸部詳細尺寸見101頁。

圖C-5 A-F3S30 ( 8 ) N- ( 5~60 ) K-X110+200WS3F



圖C-6 B-F3S30 ( 8 ) - ( 70~240 ) K-X110+200WS3F



Note: See page 101 for detailed dimensions of output shaft.

( 注 ) : 輸出軸部詳細尺寸見101頁。



0.4kW

1-PHASE/3-PHASE  
單相/三相



A-F3S25 ( 8 ) N- ( 5~30 ) K-X120+400WS3F

A-F3F22 ( 6 ) T- ( 5~30 ) K-X120+400WS3F

B-F3S25 ( 8 ) N- ( 35~120 ) K-X120+400WS3F

B-F3F22 ( 6 ) T- ( 35~120 ) K-X120+400WS3F

| Power<br>功 率 |                                                 | Rated Voltage<br>電 壓 ( V ) |                                                | Rated Frequency<br>頻 率 ( Hz ) |                     | Rated Currment<br>額定電流 ( A ) |                                        | Rated Speed<br>額定轉速 ( rpm ) |                           | Insucation class<br>絕緣等級 |                            | Protection class<br>防護等級 |                                |     |    |
|--------------|-------------------------------------------------|----------------------------|------------------------------------------------|-------------------------------|---------------------|------------------------------|----------------------------------------|-----------------------------|---------------------------|--------------------------|----------------------------|--------------------------|--------------------------------|-----|----|
| 0.4kW        |                                                 | 380                        |                                                | 50                            |                     | 1.0                          |                                        | 1400                        |                           | B                        |                            | 20 54                    |                                |     |    |
|              |                                                 | 220                        |                                                | 50                            |                     | 1.8                          |                                        | 1400                        |                           |                          |                            |                          |                                |     |    |
|              |                                                 |                            |                                                |                               |                     |                              |                                        |                             |                           |                          |                            |                          |                                |     |    |
| Power<br>功 率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |                            | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |                               | Gear<br>case<br>齒輪箱 | Ratio<br>減速比                 | Reduction<br>ratio<br>實際減速比<br>( 分 數 ) | Speed<br>轉速(rpm)            | Output Torque<br>輸出軸容許轉矩力 |                          | Output O.H.L<br>輸出軸容許O.H.L |                          | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |    |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 50Hz                        | 50Hz                      | 50Hz                     | N                          | kgf                      | N                              | kgf |    |
| 0.4kW        | Φ25D<br>(8)                                     | C-7                        | Φ22d<br>(6)                                    | C-42                          | A                   | 1/5                          | 1/5                                    | 300                         | 11                        | 1.1                      | 1320                       | 135                      | 345                            | 35  |    |
|              |                                                 |                            |                                                |                               |                     | 1/7.5                        | 2/15                                   | 200                         | 17                        | 1.7                      | 1420                       | 145                      | 360                            | 37  |    |
|              |                                                 |                            |                                                |                               |                     | 1/10                         | 1/10                                   | 150                         | 23                        | 2.3                      | 1520                       | 155                      | 382                            | 39  |    |
|              |                                                 |                            |                                                |                               |                     | 1/12.5                       | 19/230                                 | 120                         | 27                        | 2.7                      | 1620                       | 165                      | 402                            | 41  |    |
|              |                                                 |                            |                                                |                               |                     | 1/15                         | 16/245                                 | 100                         | 33                        | 3.4                      | 1720                       | 175                      | 431                            | 44  |    |
|              |                                                 |                            |                                                |                               |                     | 1/20                         | 1/20                                   | 75                          | 44                        | 4.5                      | 1860                       | 190                      | 471                            | 48  |    |
|              |                                                 |                            |                                                |                               | B                   | 1/25                         | 29/720                                 | 60                          | 55                        | 5.6                      | 2010                       | 205                      | 500                            | 51  |    |
|              |                                                 |                            |                                                |                               |                     | 1/30                         | 1/30                                   | 50                          | 67                        | 6.8                      | 2110                       | 215                      | 530                            | 54  |    |
|              |                                                 |                            |                                                |                               |                     | 1/40                         | 1/40                                   | 37.5                        | 88                        | 9                        | 2300                       | 235                      | 579                            | 59  |    |
|              |                                                 |                            |                                                |                               |                     | 1/50                         | 11/540                                 | 30                          | 101                       | 10.3                     | 2450                       | 250                      | 618                            | 63  |    |
|              |                                                 |                            |                                                |                               |                     | 1/60                         | 9/550                                  | 75                          | 101                       | 10.3                     | 2550                       | 260                      | 637                            | 65  |    |
|              |                                                 |                            |                                                |                               |                     | *1/80                        | 1/80                                   | 18.8                        | 101                       | 10.3                     | 2550                       | 260                      | 637                            | 65  |    |
|              | Φ30D<br>(8)                                     | C-9                        | Φ28d<br>(8)                                    | C-42                          | A                   | *1/100                       | 1/100                                  | 15                          | 101                       | 10.3                     | 2550                       | 260                      | 637                            | 65  |    |
|              |                                                 |                            |                                                |                               |                     | *1/120                       | 1/120                                  | 12.5                        | 101                       | 10.3                     | 2550                       | 260                      | 637                            | 65  |    |
|              |                                                 |                            |                                                |                               |                     | 1/5                          | 1/5                                    | 300                         | 11                        | 1.1                      | 1520                       | 155                      | 382                            | 39  |    |
|              |                                                 |                            |                                                |                               |                     | 1/7.5                        | 2/15                                   | 200                         | 17                        | 1.7                      | 1760                       | 180                      | 441                            | 45  |    |
|              |                                                 |                            |                                                |                               |                     | 1/10                         | 1/10                                   | 150                         | 23                        | 2.3                      | 1910                       | 195                      | 481                            | 49  |    |
|              |                                                 |                            |                                                |                               |                     | 1/12.5                       | 19/235                                 | 120                         | 27                        | 2.7                      | 2060                       | 210                      | 520                            | 53  |    |
|              |                                                 |                            |                                                |                               | B                   | 1/15                         | 1/15                                   | 100                         | 33                        | 3.4                      | 2160                       | 220                      | 539                            | 55  |    |
|              |                                                 |                            |                                                |                               |                     | 1/20                         | 1/20                                   | 75                          | 44                        | 4.5                      | 2400                       | 245                      | 598                            | 61  |    |
|              |                                                 |                            |                                                |                               |                     | 1/25                         | 1/25                                   | 60                          | 55                        | 5.6                      | 2550                       | 260                      | 637                            | 65  |    |
|              |                                                 |                            |                                                |                               |                     | 1/30                         | 1/30                                   | 50                          | 67                        | 6.8                      | 2650                       | 270                      | 667                            | 68  |    |
|              |                                                 |                            |                                                |                               |                     | 1/40                         | 1/40                                   | 37.5                        | 88                        | 9                        | 2840                       | 290                      | 716                            | 73  |    |
|              |                                                 |                            |                                                |                               |                     | 1/50                         | 19/940                                 | 30                          | 111                       | 11.3                     | 3090                       | 305                      | 775                            | 79  |    |
|              |                                                 |                            |                                                |                               | C-10                | B                            | 1/60                                   | 1/60                        | 25                        | 133                      | 13.6                       | 3090                     | 315                            | 775 | 79 |
|              |                                                 |                            |                                                |                               |                     |                              | 1/80                                   | 1/80                        | 18.8                      | 169                      | 17.2                       | 3090                     | 315                            | 785 | 80 |
|              |                                                 |                            |                                                |                               |                     |                              | 1/100                                  | 19/1880                     | 15                        | 184                      | 18.8                       | 3140                     | 320                            | 785 | 80 |
|              |                                                 |                            |                                                |                               |                     |                              | 1/120                                  | 1/120                       | 12.5                      | 184                      | 18.8                       | 3140                     | 320                            | 785 | 80 |
|              |                                                 |                            |                                                |                               |                     |                              | *1/160                                 | 1/160                       | 9.4                       | 184                      | 18.8                       | 3140                     | 320                            | 785 | 80 |
|              |                                                 |                            |                                                |                               |                     |                              | *1/200                                 | 1/200                       | 7.5                       | 184                      | 18.8                       | 3140                     | 320                            | 785 | 80 |
|              |                                                 |                            |                                                |                               | *1/240              | 1/240                        | 6.3                                    | 184                         | 18.8                      | 3140                     | 320                        | 785                      | 80                             |     |    |

Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm. ( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.※ Marked as torque limited. 3.※ 標記為轉矩力受限機型。

0.4kW

1-PHASE/3-PHASE  
單相/三相



A-F3S35 ( 10 ) N- ( 5~60 ) K-X140+400WS3F

A-F3F32 ( 10 ) T- ( 5~60 ) K-X140+400WS3F

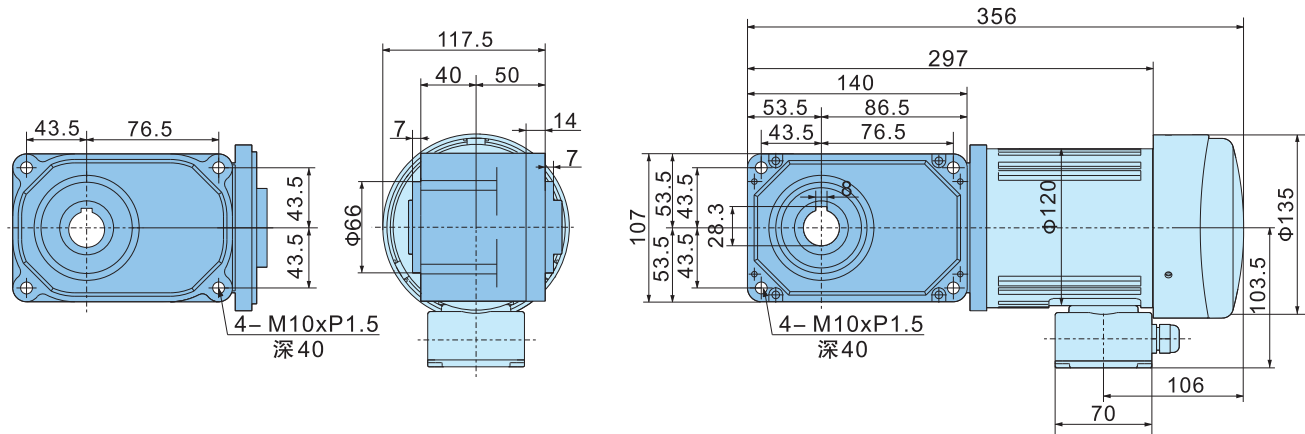
B-F3S35 ( 10 ) N- ( 70~240 ) K-X140+400WS3F

B-F3F32 ( 10 ) T- ( 70~240 ) K-X140+400WS3F

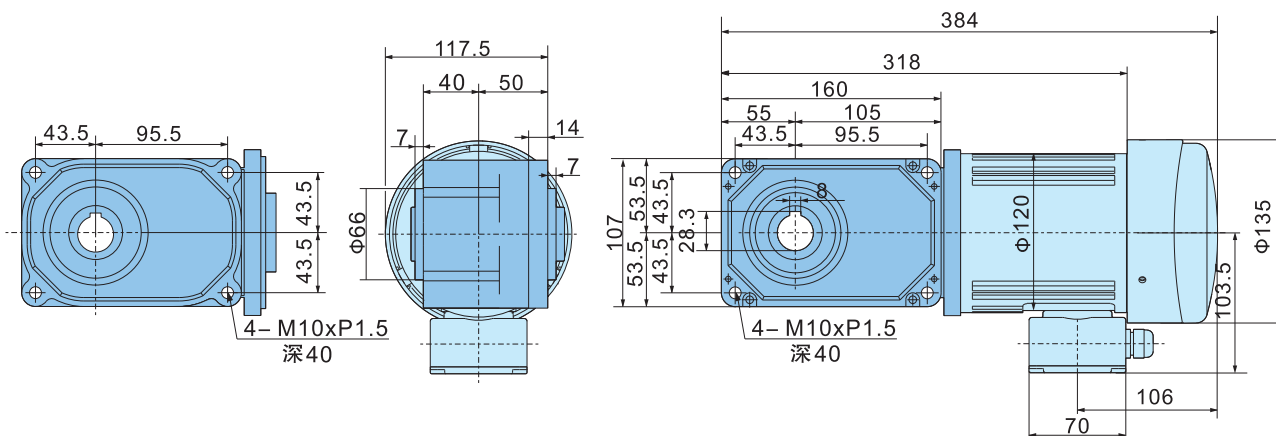
| Power<br>功 率 |                                                 | Rated Voltage<br>電 壓 ( V ) |                                                | Rated Frequency<br>頻 率 ( Hz ) |                     | Rated Currment<br>額定電流 ( A ) |                                       | Rated Speed<br>額定轉速 ( rpm ) |                           | Insucation class<br>絕緣等級 |                            | Protection class<br>防護等級 |                                |      |
|--------------|-------------------------------------------------|----------------------------|------------------------------------------------|-------------------------------|---------------------|------------------------------|---------------------------------------|-----------------------------|---------------------------|--------------------------|----------------------------|--------------------------|--------------------------------|------|
| 0.4kW        |                                                 | 380                        |                                                | 50                            |                     | 1.0                          |                                       | 1400                        |                           | B                        |                            | 20 54                    |                                |      |
|              |                                                 | 220                        |                                                | 50                            |                     | 1.8                          |                                       | 1400                        |                           |                          |                            |                          |                                |      |
|              |                                                 |                            |                                                |                               |                     |                              |                                       |                             |                           |                          |                            |                          |                                |      |
| Power<br>功 率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |                            | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |                               | Gear<br>case<br>齒輪箱 | Ratio<br>減速比                 | Reduction<br>ratio<br>實際減速比<br>( 分數 ) | Speed<br>轉速(rpm)            | Output Torque<br>輸出軸容許轉矩力 |                          | Output O.H.L<br>輸出軸容許O.H.L |                          | Output shaft<br>輸出軸容許軸向<br>力負荷 |      |
|              |                                                 |                            |                                                |                               |                     |                              |                                       | 50Hz                        | 50Hz                      | 50Hz                     | N                          | kgf                      | N                              | kgf  |
| 0.4kW        | Φ35D<br>(10)                                    | C-11                       | Φ32d<br>(10)                                   | C-42                          | A                   | 1/5                          | 300                                   | 11                          | 1.1                       | 1960                     | 200                        | 500                      | 51                             |      |
|              |                                                 |                            |                                                |                               |                     | 1/7.5                        | 2/15                                  | 200                         | 17                        | 1.7                      | 2250                       | 230                      | 567                            | 58   |
|              |                                                 |                            |                                                |                               |                     | 1/10                         | 1/10                                  | 150                         | 23                        | 2.3                      | 2450                       | 250                      | 613                            | 63   |
|              |                                                 |                            |                                                |                               |                     | 1/12.5                       | 19/235                                | 120                         | 27                        | 2.7                      | 2600                       | 265                      | 669                            | 68   |
|              |                                                 |                            |                                                |                               |                     | 1/15                         | 1/15                                  | 100                         | 33                        | 3.4                      | 2740                       | 280                      | 686                            | 70   |
|              |                                                 |                            |                                                |                               |                     | 1/20                         | 1/20                                  | 75                          | 44                        | 4.5                      | 2990                       | 305                      | 747                            | 76   |
|              |                                                 |                            |                                                |                               |                     | 1/25                         | 1/25                                  | 60                          | 55                        | 5.6                      | 3190                       | 325                      | 796                            | 81   |
|              |                                                 |                            |                                                |                               |                     | 1/30                         | 1/30                                  | 50                          | 67                        | 6.8                      | 3280                       | 335                      | 821                            | 84   |
|              |                                                 |                            |                                                |                               |                     | 1/40                         | 1/40                                  | 37.5                        | 88                        | 9                        | 3480                       | 355                      | 870                            | 89   |
|              |                                                 |                            |                                                |                               |                     | 1/50                         | 1/50                                  | 30                          | 111                       | 11.3                     | 3480                       | 355                      | 870                            | 89   |
|              |                                                 |                            |                                                |                               |                     | 1/60                         | 1/60                                  | 25                          | 133                       | 13.6                     | 3480                       | 355                      | 870                            | 89   |
|              |                                                 |                            |                                                |                               |                     | C-12                         | C-42                                  | B                           | 1/80                      | 1/80                     | 18.8                       | 169                      | 17.2                           | 3480 |
|              | 1/100                                           | 19/1880                    | 15                                             | 211                           | 21.5                |                              |                                       |                             | 3530                      | 360                      | 873                        | 90                       |                                |      |
|              | 1/120                                           | 1/120                      | 12.5                                           | 253                           | 25.8                |                              |                                       |                             | 3530                      | 360                      | 883                        | 90                       |                                |      |
|              | 1/160                                           | 1/160                      | 9.4                                            | 270                           | 27.6                |                              |                                       |                             | 3630                      | 370                      | 912                        | 93                       |                                |      |
|              | 1/200                                           | 1/200                      | 7.5                                            | 270                           | 27.6                |                              |                                       |                             | 3630                      | 370                      | 912                        | 93                       |                                |      |
|              |                                                 |                            |                                                |                               |                     | 1/240                        | 1/240                                 | 6.25                        | 270                       | 27.6                     | 3630                       | 370                      | 912                            | 93   |

Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm. ( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.※ Marked as torque limited. 3.※ 標記為轉矩力受限機型。

圖C-7 A-F3S25 ( 8 ) N- ( 5~30 ) K- X110+400W3SF

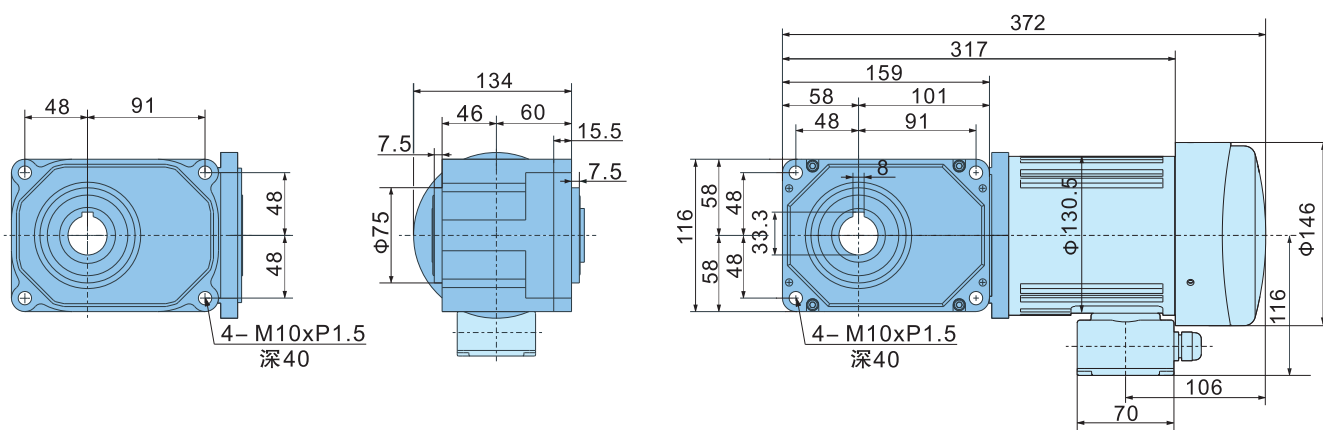


圖C-8 B-F3S25 ( 8 ) N- ( 35~120 ) K-X110+400WS3F



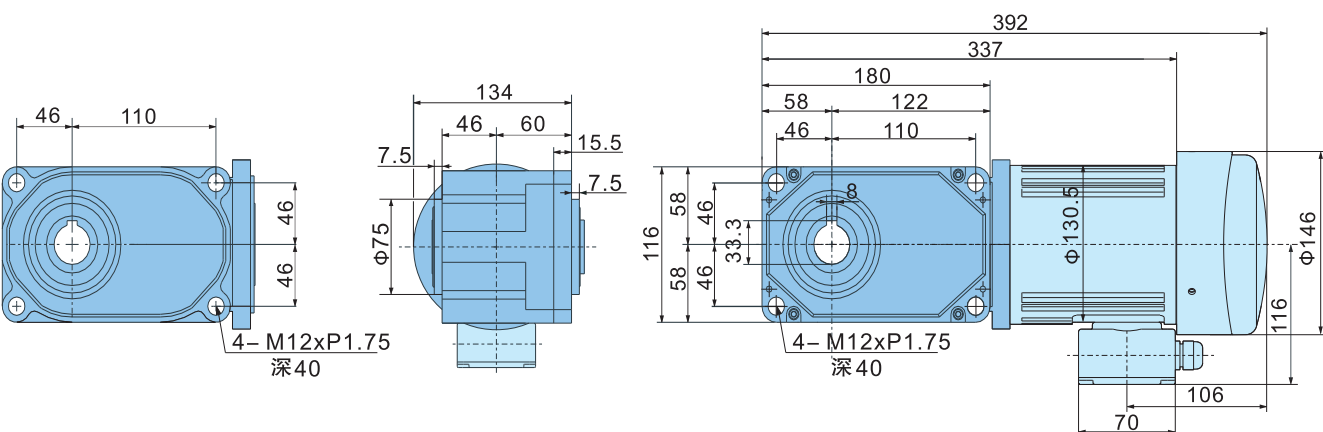
Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

圖C-9 A-F3S30 ( 8 ) N- ( 5~60 ) K-X120+400WS3F

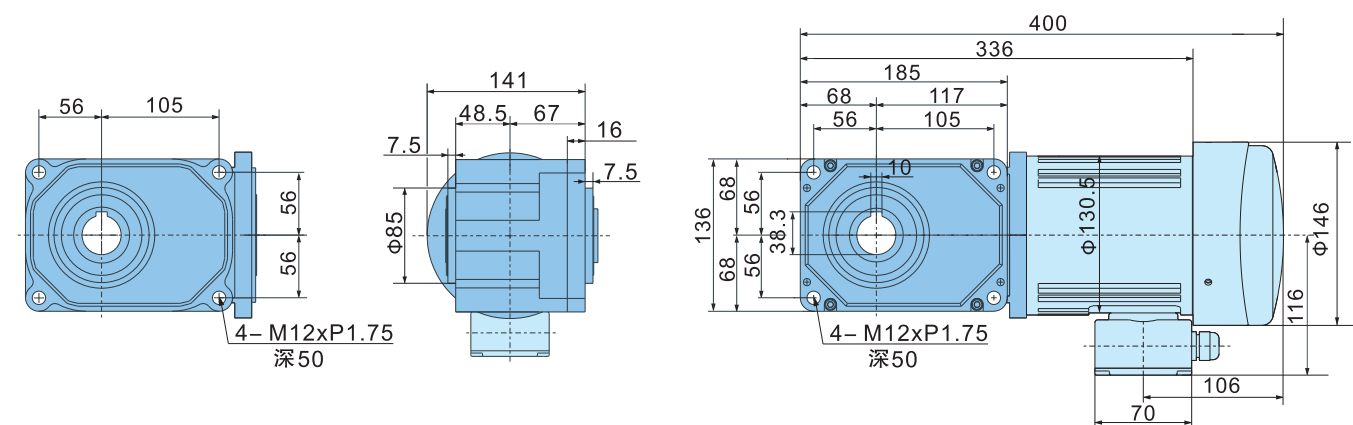


Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

圖C-10 B-F3S30 ( 8 ) N- ( 70~240 ) K-X120+400WS3F

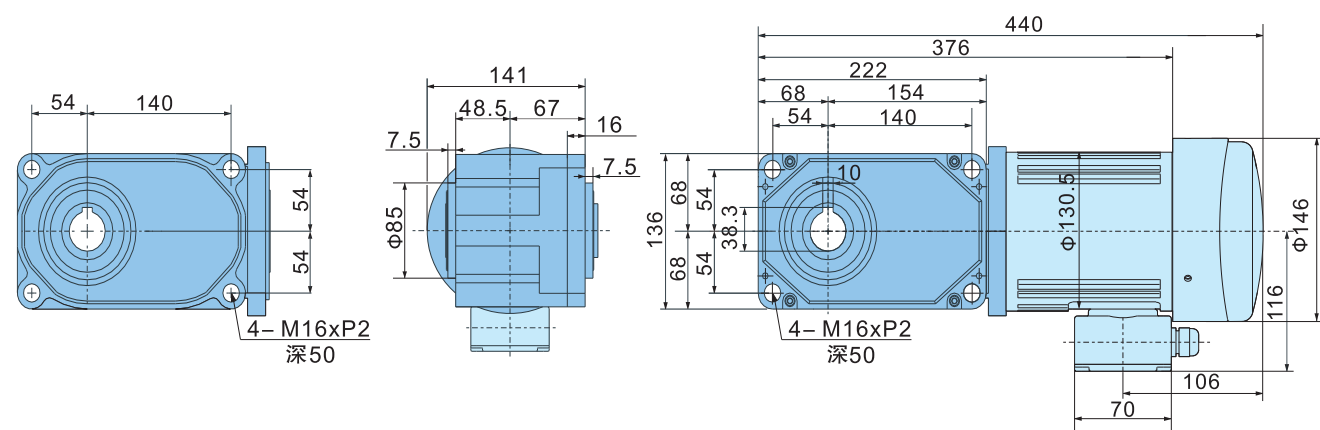


圖C-11 A-F3S35 ( 10 ) N- ( 5~60 ) K-X120+400WS3F



Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

圖C-12 B-F3S35 ( 10 ) N- ( 70~240 ) K-X120+400WS3F

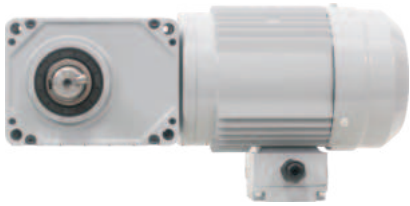
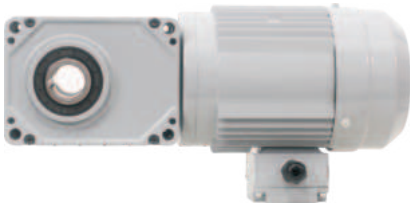


Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。



0.75kW

1-PHASE/3-PHASE  
單相/三相



A-F3S30 ( 8 ) N- ( 5~30 ) K-X140+750WS3F

A-F3F28 ( 8 ) T- ( 5~30 ) K-X140+750WS3F

B-F3S30 ( 8 ) N- ( 35~120 ) K-X140+750WS3F

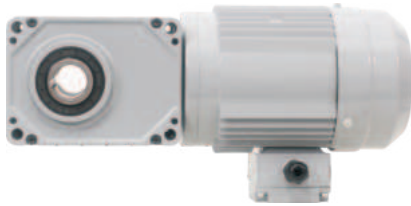
B-F3F28 ( 8 ) T- ( 35~120 ) K-X140+750WS3F

| Power<br>功 率 |                                                 | Rated Voltage<br>電 壓（ V ） |                                                | Rated Frequency<br>頻 率（ Hz ） |                     | Rated Currment<br>額定電流（ A ） |                                        | Rated Speed<br>額定轉速（ rpm ） |                           | Insucation class<br>絕緣等級 |                            | Protection class<br>防護等級 |                                |     |
|--------------|-------------------------------------------------|---------------------------|------------------------------------------------|------------------------------|---------------------|-----------------------------|----------------------------------------|----------------------------|---------------------------|--------------------------|----------------------------|--------------------------|--------------------------------|-----|
| 0.75kW       |                                                 | 380                       |                                                | 50                           |                     | 1.8                         |                                        | 1400                       |                           | B                        |                            | 20 54                    |                                |     |
|              |                                                 | 220                       |                                                | 50                           |                     | 3.2                         |                                        | 1400                       |                           |                          |                            |                          |                                |     |
|              |                                                 |                           |                                                |                              |                     |                             |                                        |                            |                           |                          |                            |                          |                                |     |
| Power<br>功 率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |                           | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |                              | Gear<br>case<br>齒輪箱 | Ratio<br>減速比                | Reduction<br>ratio<br>實際減速比<br>（ 分 數 ） | Speed<br>轉速(rpm)           | Output Torque<br>輸出軸容許轉矩力 |                          | Output O.H.L<br>輸出軸容許O.H.L |                          | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|              |                                                 |                           |                                                |                              |                     |                             |                                        | 50Hz                       | 50Hz                      | 50Hz                     | N                          | kgf                      | N                              | kgf |
| 0.75<br>kW   | Φ30D<br>(8)                                     | C-13                      | Φ28d<br>(8)                                    | C-42                         | A                   | 1/5                         | 1/5                                    | 300                        | 21                        | 2.1                      | 1520                       | 155                      | 375                            | 38  |
|              |                                                 |                           |                                                |                              |                     | 1/7.5                       | 2/15                                   | 200                        | 31                        | 3.2                      | 1760                       | 180                      | 438                            | 45  |
|              |                                                 |                           |                                                |                              |                     | 1/10                        | 1/10                                   | 150                        | 41                        | 4.2                      | 1910                       | 195                      | 475                            | 48  |
|              |                                                 |                           |                                                |                              |                     | 1/12.5                      | 19/235                                 | 120                        | 52                        | 5.3                      | 2060                       | 210                      | 506                            | 52  |
|              |                                                 |                           |                                                |                              |                     | 1/15                        | 1/15                                   | 100                        | 63                        | 6.4                      | 2160                       | 220                      | 539                            | 55  |
|              |                                                 |                           |                                                |                              |                     | 1/20                        | 1/20                                   | 75                         | 83                        | 8.5                      | 2400                       | 245                      | 600                            | 61  |
|              |                                                 |                           |                                                |                              |                     | 1/25                        | 29/720                                 | 60                         | 104                       | 10.6                     | 2550                       | 260                      | 637                            | 65  |
|              |                                                 | 1/30                      | 1/30                                           | 50                           | 124                 | 12.7                        | 3140                                   | 320                        | 662                       | 68                       |                            |                          |                                |     |
|              |                                                 | C-14                      | B                                              | 1/40                         | 1/40                | 37.5                        | 166                                    | 16.9                       | 3480                      | 355                      | 711                        | 73                       |                                |     |
|              |                                                 |                           |                                                | 1/50                         | 19/940              | 30                          | 198                                    | 20.2                       | 4116                      | 420                      | 747                        | 76                       |                                |     |
|              |                                                 |                           |                                                | 1/60                         | 1/60                | 25                          | 198                                    | 20.2                       | 4116                      | 420                      | 747                        | 76                       |                                |     |
|              |                                                 |                           |                                                | ※1/80                        | 1/80                | 18.8                        | 198                                    | 20.2                       | 4116                      | 420                      | 747                        | 76                       |                                |     |
|              |                                                 |                           |                                                | ※1/100                       | 1/100               | 15                          | 198                                    | 20.2                       | 4116                      | 420                      | 747                        | 76                       |                                |     |
|              |                                                 |                           |                                                | ※1/120                       | 1/120               | 12.5                        | 198                                    | 20.2                       | 4116                      | 420                      | 747                        | 76                       |                                |     |
|              | Φ35D<br>(10)                                    |                           |                                                | C-15                         | Φ32d<br>(10)        | C-42                        | A                                      | 1/5                        | 1/5                       | 300                      | 21                         | 2.1                      | 1960                           | 200 |
|              |                                                 | 1/7.5                     | 2/15                                           |                              |                     |                             |                                        | 200                        | 31                        | 3.2                      | 2250                       | 230                      | 567                            | 58  |
|              |                                                 | 1/10                      | 1/10                                           |                              |                     |                             |                                        | 150                        | 41                        | 4.2                      | 2450                       | 250                      | 613                            | 63  |
|              |                                                 | 1/12.5                    | 19/235                                         |                              |                     |                             |                                        | 120                        | 52                        | 5.3                      | 2600                       | 265                      | 669                            | 68  |
|              |                                                 | 1/15                      | 1/15                                           |                              |                     |                             |                                        | 100                        | 63                        | 6.4                      | 2740                       | 280                      | 686                            | 70  |
|              |                                                 | 1/20                      | 1/20                                           |                              |                     |                             |                                        | 75                         | 83                        | 8.5                      | 2990                       | 305                      | 747                            | 76  |
|              |                                                 | 1/25                      | 29/720                                         |                              |                     |                             |                                        | 60                         | 104                       | 10.6                     | 3190                       | 325                      | 796                            | 81  |
|              |                                                 | 1/30                      | 1/30                                           |                              |                     |                             |                                        | 50                         | 124                       | 12.7                     | 3280                       | 335                      | 821                            | 84  |
|              |                                                 | 1/40                      | 1/40                                           |                              |                     |                             |                                        | 37.5                       | 166                       | 16.9                     | 3480                       | 355                      | 870                            | 89  |
|              |                                                 | 1/50                      | 19/940                                         |                              |                     |                             |                                        | 30                         | 208                       | 21.2                     | 3480                       | 355                      | 870                            | 89  |
|              |                                                 | 1/60                      | 1/60                                           | 25                           | 249                 | 25.4                        | 3480                                   | 355                        | 870                       | 89                       |                            |                          |                                |     |
|              |                                                 | C-16                      | B                                              | 1/80                         | 1/80                | 18.8                        | 316                                    | 32.2                       | 3480                      | 355                      | 873                        | 89                       |                                |     |
|              |                                                 |                           |                                                | 1/100                        | 19/1880             | 15                          | 395                                    | 40.3                       | 3530                      | 360                      | 883                        | 90                       |                                |     |
|              |                                                 |                           |                                                | 1/120                        | 1/120               | 12.5                        | 473                                    | 48.3                       | 3530                      | 360                      | 883                        | 90                       |                                |     |
|              |                                                 |                           |                                                | ※1/160                       | 1/160               | 9.4                         | 395                                    | 40.3                       | 3530                      | 360                      | 883                        | 90                       |                                |     |
|              |                                                 |                           |                                                | ※1/200                       | 1/200               | 7.5                         | 395                                    | 40.3                       | 3530                      | 360                      | 883                        | 90                       |                                |     |
|              |                                                 |                           |                                                | ※1/240                       | 1/240               | 6.3                         | 395                                    | 40.3                       | 3530                      | 360                      | 883                        | 90                       |                                |     |

Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm. ( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.※ Marked as torque limited. 3.※標記為轉矩力受限機型。

0.75kW

1-PHASE/3-PHASE  
單相/三相



A-F3S45 ( 14 ) N- ( 5~60 ) K-X160+750WS3F

A-F3F40 ( 12 ) T- ( 5~60 ) K-X160+750WS3F

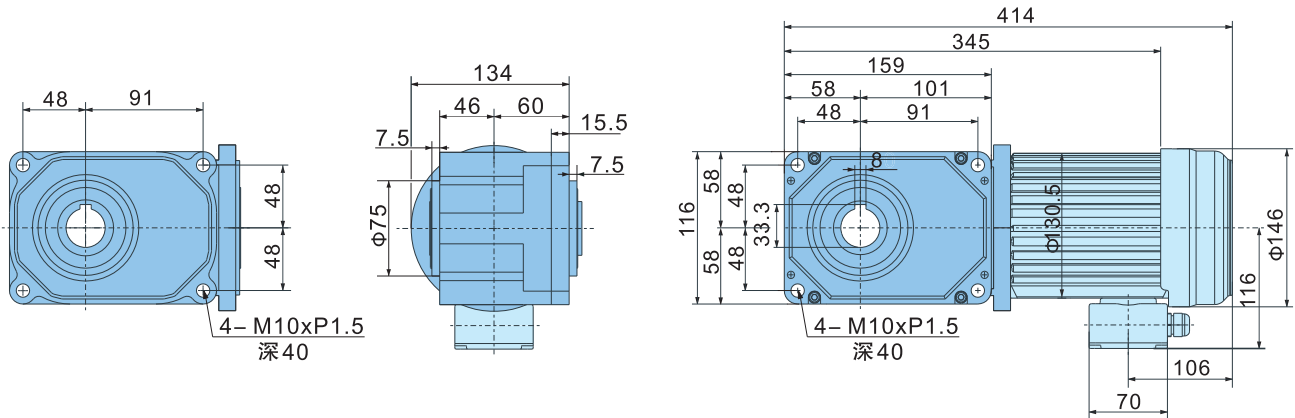
B-F3S45 ( 14 ) N- ( 70~240 ) K-X160+750WS3F

B-F3F40 ( 12 ) T- ( 70~240 ) K-X160+750WS3F

| Power<br>功 率 |                                                 | Rated Voltage<br>電 壓 ( V ) |                                                | Rated Frequency<br>頻 率 ( Hz ) |                     | Rated Currment<br>額定電流 ( A ) |                                       | Rated Speed<br>額定轉速 ( rpm ) |                           | Insucation class<br>絕緣等級 |                            | Protection class<br>防護等級 |                                |     |
|--------------|-------------------------------------------------|----------------------------|------------------------------------------------|-------------------------------|---------------------|------------------------------|---------------------------------------|-----------------------------|---------------------------|--------------------------|----------------------------|--------------------------|--------------------------------|-----|
| 0.75kW       |                                                 | 380                        |                                                | 50                            |                     | 1.8                          |                                       | 1400                        |                           | B                        |                            | 20 54                    |                                |     |
|              |                                                 | 220                        |                                                | 50                            |                     | 3.2                          |                                       | 1400                        |                           |                          |                            |                          |                                |     |
|              |                                                 |                            |                                                |                               |                     |                              |                                       |                             |                           |                          |                            |                          |                                |     |
| Power<br>功 率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |                            | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |                               | Gear<br>case<br>齒輪箱 | Ratio<br>減速比                 | Reduction<br>ratio<br>實際減速比<br>( 分數 ) | Speed<br>轉速(rpm)            | Output Torque<br>輸出軸容許轉矩力 |                          | Output O.H.L<br>輸出軸容許O.H.L |                          | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|              |                                                 |                            |                                                |                               |                     |                              |                                       | 50Hz                        | N · m                     | kgf · m                  | N                          | kgf                      | N                              | kgf |
| 0.75<br>kW   | Φ45D<br>(14)                                    | C-17                       | Φ40d<br>(12)                                   | C-42                          | A                   | 1/5                          | 1/5                                   | 300                         | 21                        | 2.1                      | 1960                       | 200                      | 500                            | 51  |
|              |                                                 |                            |                                                |                               |                     | 1/7.5                        | 2/15                                  | 200                         | 31                        | 3.2                      | 2250                       | 230                      | 567                            | 58  |
|              |                                                 |                            |                                                |                               |                     | 1/10                         | 1/10                                  | 150                         | 41                        | 4.2                      | 2450                       | 250                      | 613                            | 63  |
|              |                                                 |                            |                                                |                               |                     | 1/12.5                       | 19/235                                | 120                         | 52                        | 5.3                      | 2600                       | 265                      | 669                            | 68  |
|              |                                                 |                            |                                                |                               |                     | 1/15                         | 1/15                                  | 100                         | 63                        | 6.4                      | 2740                       | 280                      | 686                            | 70  |
|              |                                                 |                            |                                                |                               |                     | 1/20                         | 1/20                                  | 75                          | 83                        | 8.5                      | 2990                       | 305                      | 747                            | 76  |
|              |                                                 |                            |                                                |                               |                     | 1/25                         | 29/720                                | 60                          | 104                       | 10.6                     | 3190                       | 325                      | 796                            | 81  |
|              |                                                 |                            |                                                |                               |                     | 1/30                         | 1/30                                  | 50                          | 124                       | 12.7                     | 3280                       | 335                      | 821                            | 84  |
|              |                                                 |                            |                                                |                               |                     | 1/40                         | 1/40                                  | 37.5                        | 166                       | 16.9                     | 3480                       | 355                      | 870                            | 89  |
|              |                                                 |                            |                                                |                               |                     | 1/50                         | 19/940                                | 30                          | 208                       | 21.2                     | 3480                       | 355                      | 870                            | 89  |
|              | 1/60                                            | 1/60                       | 25                                             | 249                           | 25.4                | 3480                         | 355                                   | 870                         | 89                        |                          |                            |                          |                                |     |
|              | C-18                                            | C-42                       |                                                |                               | B                   | 1/80                         | 1/80                                  | 18.8                        | 316                       | 32.2                     | 4750                       | 485                      | 1177                           | 120 |
|              |                                                 |                            |                                                |                               |                     | 1/100                        | 19/1880                               | 15                          | 395                       | 40.3                     | 4750                       | 485                      | 1177                           | 120 |
|              |                                                 |                            |                                                |                               |                     | 1/120                        | 1/120                                 | 12.5                        | 473                       | 48.3                     | 4750                       | 485                      | 1177                           | 120 |
|              |                                                 |                            |                                                |                               |                     | 1/160                        | 1/160                                 | 9.4                         | 554                       | 56.5                     | 5190                       | 530                      | 1275                           | 130 |
|              |                                                 |                            |                                                |                               |                     | 1/200                        | 1/200                                 | 7.5                         | 554                       | 56.5                     | 5190                       | 530                      | 1275                           | 130 |
|              |                                                 |                            |                                                |                               |                     | 1/240                        | 1/240                                 | 6.3                         | 554                       | 56.5                     | 5190                       | 530                      | 1275                           | 130 |

Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm. ( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.※ Marked as torque limited. 3.※標記為轉矩力受限機型。

圖C-13 A-F3S30 ( 8 ) N- ( 5~30 ) K-X120+750WS3F

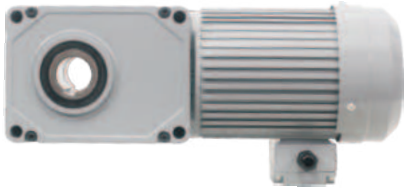






1.1kW

1-PHASE/3-PHASE  
單相/三相

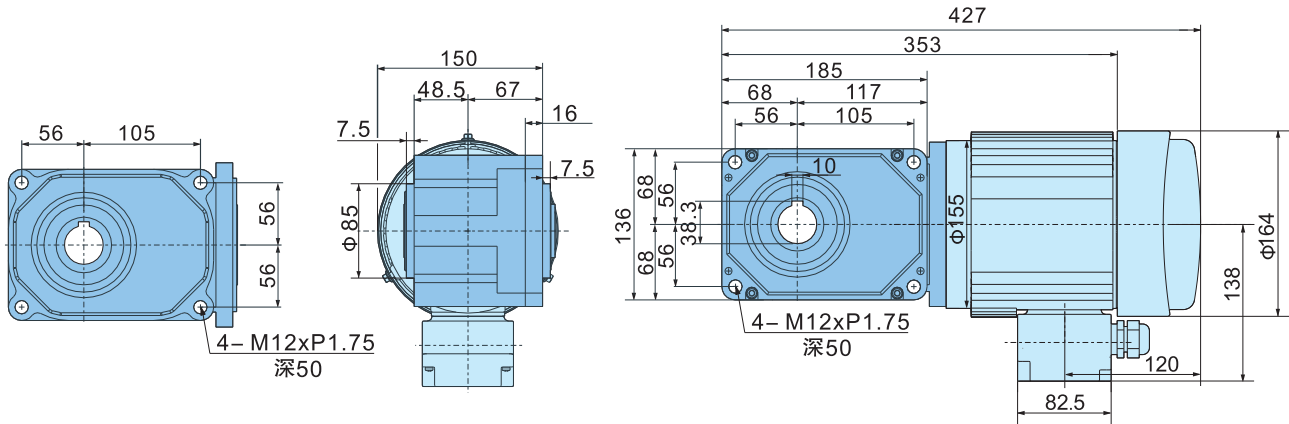


A-F3S45 ( 14 ) N- ( 5~60 ) K-X160+1100WS3F      A-F3F40 ( 12 ) T- ( 5~60 ) K-X160+1100WS3F  
B-F3S45 ( 14 ) N- ( 70~240 ) K-X160+1100WS3F      B-F3F40 ( 12 ) T- ( 70~240 ) K-X160+1100WS3F

| Power<br>功 率 |                                                 | Rated Voltage<br>電 壓 ( V ) |                                                | Rated Frequency<br>頻 率 ( Hz ) |                  | Rated Currment<br>額定電流 ( A ) |                                        | Rated Speed<br>額定轉速 ( rpm ) |                           | Insucation class<br>絕緣等級 |                            | Protection class<br>防護等級 |                                |     |      |     |
|--------------|-------------------------------------------------|----------------------------|------------------------------------------------|-------------------------------|------------------|------------------------------|----------------------------------------|-----------------------------|---------------------------|--------------------------|----------------------------|--------------------------|--------------------------------|-----|------|-----|
| 1.1kW        |                                                 | 380                        |                                                | 50                            |                  | 2.5                          |                                        | 1400                        |                           | B                        |                            | 20 54                    |                                |     |      |     |
|              |                                                 | 220                        |                                                | 50                            |                  | 4.4                          |                                        | 1400                        |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
| Power<br>功 率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |                            | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |                               | Gear case<br>齒輪箱 | Ratio<br>減速比                 | Reduction<br>ratio<br>實際減速比<br>( 分 數 ) | Speed<br>轉速(rpm)            | Output Torque<br>輸出軸容許轉矩力 |                          | Output O.H.L<br>輸出軸容許O.H.L |                          | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             | N · m                     | kgf · m                  | N                          | kgf                      | N                              | kgf |      |     |
| 1.1kW        | Φ35D<br>(10)                                    | C-19                       | Φ32d<br>(10)                                   | C-42                          | A                | 1/5                          | 1/5                                    | 300                         | 30                        | 3.1                      | 1960                       | 200                      | 490                            | 50  |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/7.5                        | 2/15                                   | 200                         | 45                        | 4.6                      | 2250                       | 230                      | 541                            | 55  |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/10                         | 1/10                                   | 150                         | 60                        | 6.1                      | 2450                       | 250                      | 581                            | 59  |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/12.5                       | 19/235                                 | 120                         | 74                        | 7.5                      | 2600                       | 265                      | 669                            | 68  |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/15                         | 1/15                                   | 100                         | 89                        | 9.1                      | 2750                       | 280                      | 686                            | 70  |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/20                         | 1/20                                   | 75                          | 119                       | 12.1                     | 2990                       | 305                      | 745                            | 76  |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/25                         | 29/720                                 | 60                          | 148                       | 15.1                     | 3190                       | 325                      | 794                            | 81  |      |     |
|              |                                                 | C-20                       | B                                              | 1/30                          | 1/30             | 50                           | 178                                    | 18.1                        | 3280                      | 335                      | 824                        | 84                       |                                |     |      |     |
|              |                                                 |                            |                                                | 1/40                          | 1/40             | 37.5                         | 224                                    | 22.8                        | 3480                      | 355                      | 873                        | 89                       |                                |     |      |     |
|              |                                                 |                            |                                                | 1/50                          | 19/940           | 30                           | 262                                    | 26.7                        | 3480                      | 355                      | 873                        | 89                       |                                |     |      |     |
|              |                                                 |                            |                                                | 1/60                          | 1/60             | 25                           | 262                                    | 26.7                        | 3480                      | 355                      | 873                        | 89                       |                                |     |      |     |
|              |                                                 |                            |                                                | *1/80                         | 1/80             | 18.8                         | 262                                    | 26.7                        | 3480                      | 355                      | 873                        | 89                       |                                |     |      |     |
|              |                                                 |                            |                                                | *1/100                        | 19/1880          | 15                           | 262                                    | 26.7                        | 3480                      | 355                      | 873                        | 89                       |                                |     |      |     |
|              |                                                 |                            |                                                | *1/120                        | 1/120            | 12.5                         | 262                                    | 26.7                        | 3480                      | 355                      | 873                        | 89                       |                                |     |      |     |
|              | Φ45D<br>(14)                                    | C-21                       | Φ40d<br>(12)                                   | C-42                          | A                | 1/5                          | 1/5                                    | 300                         | 32                        | 3.2                      | 2940                       | 300                      | 800                            | 82  |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/7.5                        | 2/15                                   | 200                         | 47                        | 4.8                      | 3330                       | 340                      | 967                            | 99  |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/10                         | 1/10                                   | 150                         | 63                        | 6.4                      | 3630                       | 370                      | 1040                           | 106 |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/12.5                       | 19/235                                 | 120                         | 79                        | 8                        | 3920                       | 400                      | 1067                           | 109 |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/15                         | 1/15                                   | 100                         | 95                        | 9.6                      | 4070                       | 415                      | 1067                           | 109 |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/20                         | 1/20                                   | 75                          | 126                       | 13                       | 4460                       | 455                      | 1067                           | 109 |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/25                         | 29/720                                 | 60                          | 158                       | 16                       | 4700                       | 480                      | 1067                           | 109 |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/30                         | 1/30                                   | 50                          | 189                       | 19.3                     | 4750                       | 485                      | 1067                           | 109 |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/40                         | 1/40                                   | 37.5                        | 252                       | 25.7                     | 4750                       | 485                      | 1067                           | 109 |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/50                         | 19/940                                 | 30                          | 315                       | 32.1                     | 4750                       | 485                      | 1067                           | 109 |      |     |
|              |                                                 |                            |                                                |                               |                  | 1/60                         | 1/60                                   | 25                          | 378                       | 38.6                     | 4750                       | 485                      | 1067                           | 109 |      |     |
|              |                                                 |                            |                                                |                               |                  | C-22                         | B                                      | 1/80                        | 1/80                      | 18.8                     | 504                        | 51.5                     | 4750                           | 485 | 1177 | 120 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        | 1/100                       | 19/1880                   | 15                       | 630                        | 64.3                     | 4750                           | 485 | 1177 | 120 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        | 1/120                       | 1/120                     | 12.5                     | 756                        | 72.1                     | 4750                           | 485 | 1177 | 120 |
|              |                                                 | 1/160                      | 1/160                                          | 9.4                           | 764              |                              |                                        | 78                          | 5190                      | 530                      | 1275                       | 130                      |                                |     |      |     |
|              |                                                 | 1/200                      | 1/200                                          | 7.5                           | 764              |                              |                                        | 78                          | 5190                      | 530                      | 1275                       | 130                      |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |     |      |     |

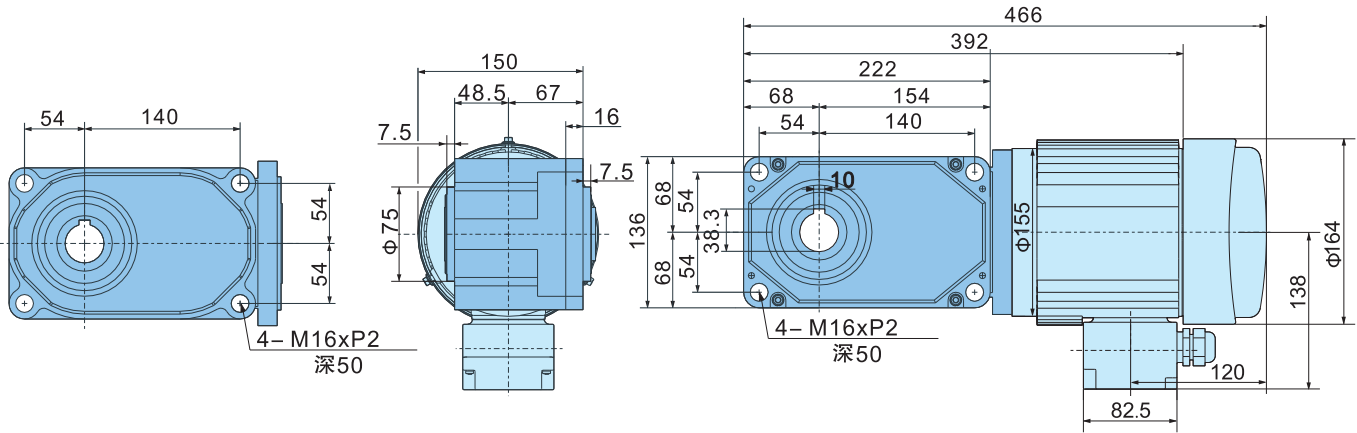
Note: 1. Allow O.H.L to be the value of output shaft end face at 20mm. ( 注 ) 1. 容許O.H.L為輸出軸端面20mm位置的數值。  
2. Output speed = motor/reduction ration. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ Marked as torque limited. 3. ※ 標記為轉矩力受限機型。

圖C-19 A-F3S35 ( 10 ) N- ( 5~30 ) K-X140+1100WS3F



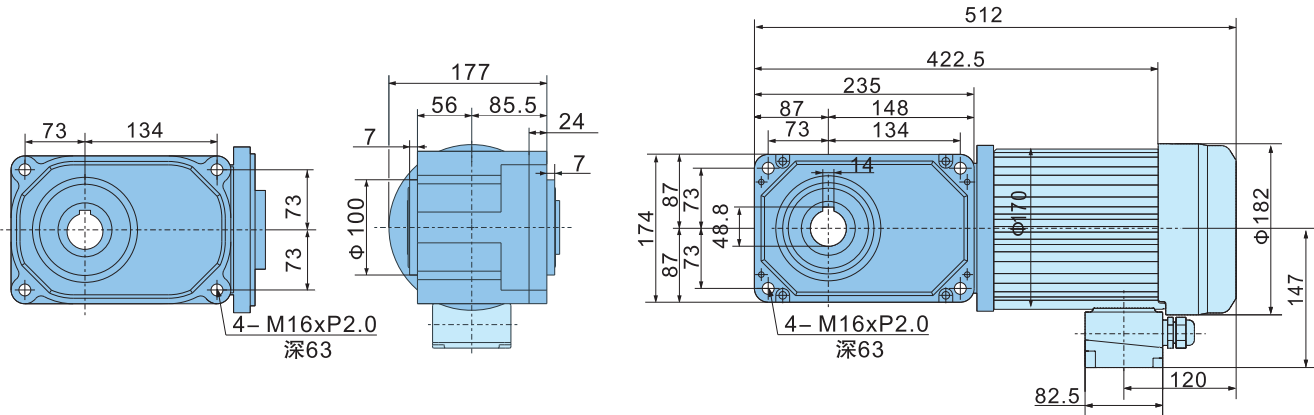
Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

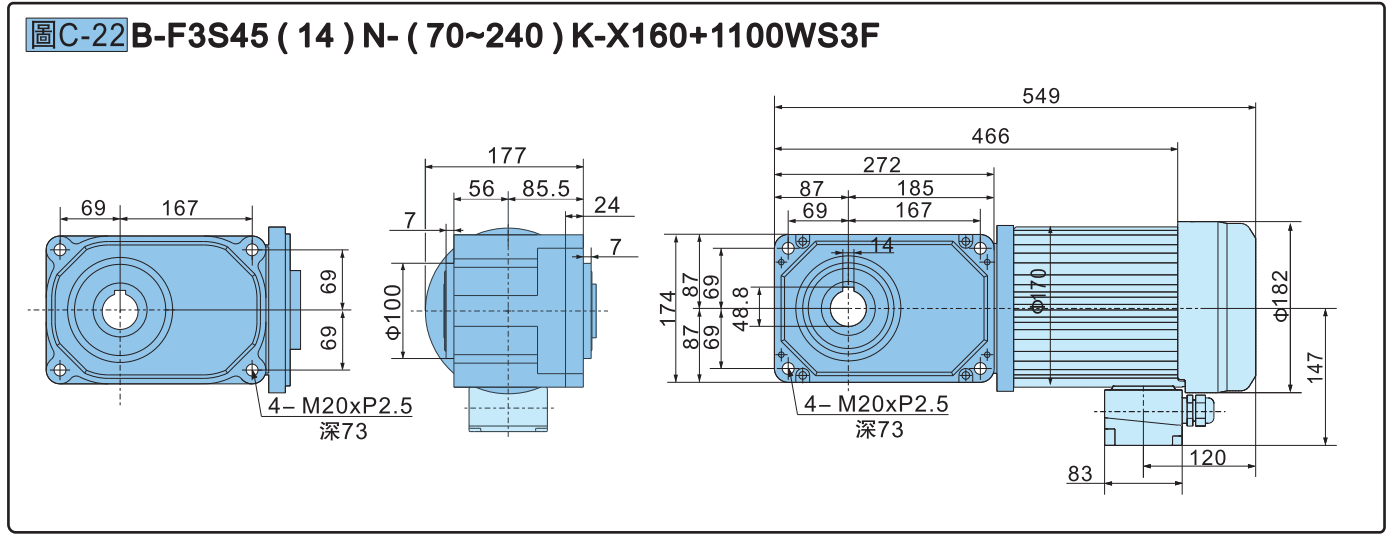
圖C-20 B-F3S35 ( 10 ) N- ( 35~120 ) K-X140+1100WS3F



Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

圖C-21 A-F3S45 ( 14 ) N- ( 5~60 ) K-X160+1100WS3F

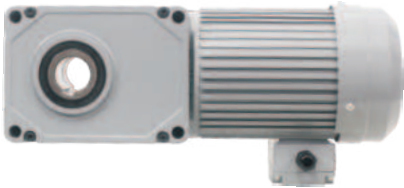




Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

1.5kW

1-PHASE/3-PHASE  
單相/三相



A-F3S35 ( 10 ) - ( 5~30 ) K-X140+1500WS3F

A-F3F32 ( 10 ) T- ( 5~30 ) K-X140+1500WS3F

A-F3S45 ( 14 ) - ( 5~60 ) K-X140+1500WS3F

A-F3F40 ( 12 ) T- ( 5~60 ) K-X140+1500WS3F

| Power<br>功 率 |                                                 | Rated Voltage<br>電 壓 ( V ) |                                                | Rated Frequency<br>頻 率 ( Hz ) |                  | Rated Currment<br>額定電流 ( A ) |                                        | Rated Speed<br>額定轉速 ( rpm ) |                                                 | Insucation class<br>絕緣等級 |                            | Protection class<br>防護等級 |                                |     |
|--------------|-------------------------------------------------|----------------------------|------------------------------------------------|-------------------------------|------------------|------------------------------|----------------------------------------|-----------------------------|-------------------------------------------------|--------------------------|----------------------------|--------------------------|--------------------------------|-----|
| 1.5kW        |                                                 | 380                        |                                                | 50                            |                  | 3.3                          |                                        | 1400                        |                                                 | B                        |                            | 20 54                    |                                |     |
|              |                                                 | 220                        |                                                | 50                            |                  | 5.6                          |                                        | 1400                        |                                                 |                          |                            |                          |                                |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 |                          |                            |                          |                                |     |
| Power<br>功 率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |                            | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |                               | Gear case<br>齒輪箱 | Ratio<br>減速比                 | Reduction<br>ratio<br>實際減速比<br>( 分 數 ) | Speed<br>轉速(rpm)            | Output Torque<br>輸出軸容許轉矩力<br>N · m      kgf · m |                          | Output O.H.L<br>輸出軸容許O.H.L |                          | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        | 50Hz                        | 50Hz                                            | 50Hz                     | N                          | kgf                      | N                              | kgf |
| 1.5kW        | Φ35D<br>(10)                                    | C-23                       | Φ32d<br>(10)                                   | C-42                          | A                | 1/5                          | 1/5                                    | 300                         | 41                                              | 4.2                      | 1960                       | 200                      | 490                            | 50  |
|              |                                                 |                            |                                                |                               |                  | 1/7.5                        | 2/15                                   | 200                         | 63                                              | 6.4                      | 2250                       | 230                      | 441                            | 45  |
|              |                                                 |                            |                                                |                               |                  | 1/10                         | 1/10                                   | 150                         | 83                                              | 8.5                      | 2450                       | 250                      | 481                            | 49  |
|              |                                                 |                            |                                                |                               |                  | 1/12.5                       | 19/235                                 | 120                         | 104                                             | 10.6                     | 2600                       | 265                      | 647                            | 66  |
|              |                                                 |                            |                                                |                               |                  | 1/15                         | 1/15                                   | 100                         | 124                                             | 12.7                     | 2740                       | 280                      | 686                            | 70  |
|              |                                                 |                            |                                                |                               |                  | 1/20                         | 1/20                                   | 75                          | 166                                             | 16.9                     | 2990                       | 305                      | 745                            | 76  |
|              |                                                 | C-24                       | Φ32d<br>(10)                                   | C-42                          | B                | 1/25                         | 1/25                                   | 60                          | 208                                             | 21.2                     | 3190                       | 325                      | 794                            | 81  |
|              |                                                 |                            |                                                |                               |                  | 1/30                         | 1/30                                   | 50                          | 249                                             | 25.4                     | 3280                       | 355                      | 824                            | 84  |
|              |                                                 |                            |                                                |                               |                  | 1/40                         | 1/40                                   | 37.5                        | 270                                             | 27.6                     | 3480                       | 355                      | 873                            | 89  |
|              |                                                 |                            |                                                |                               |                  | 1/50                         | 19/940                                 | 30                          | 270                                             | 27.6                     | 3480                       | 355                      | 873                            | 89  |
|              |                                                 |                            |                                                |                               |                  | 1/60                         | 1/60                                   | 25                          | 270                                             | 27.6                     | 3480                       | 355                      | 873                            | 89  |
|              |                                                 |                            |                                                |                               |                  | *1/80                        | 1/80                                   | 18.8                        | 270                                             | 27.6                     | 3480                       | 355                      | 873                            | 89  |
|              | Φ45D<br>(14)                                    | C-25                       | Φ40d<br>(12)                                   | C-42                          | A                | *1/100                       | 19/1880                                | 15                          | 270                                             | 27.6                     | 3480                       | 355                      | 873                            | 89  |
|              |                                                 |                            |                                                |                               |                  | *1/120                       | 1/120                                  | 12.5                        | 270                                             | 27.6                     | 3480                       | 355                      | 873                            | 89  |
|              |                                                 |                            |                                                |                               |                  | 1/5                          | 1/5                                    | 300                         | 41                                              | 4.2                      | 2940                       | 300                      | 800                            | 82  |
|              |                                                 |                            |                                                |                               |                  | 1/7.5                        | 2/15                                   | 200                         | 63                                              | 6.4                      | 3330                       | 340                      | 900                            | 92  |
|              |                                                 |                            |                                                |                               |                  | 1/10                         | 1/10                                   | 150                         | 83                                              | 8.5                      | 3630                       | 370                      | 967                            | 99  |
|              |                                                 |                            |                                                |                               |                  | 1/12.5                       | 19/235                                 | 120                         | 104                                             | 10.6                     | 3920                       | 400                      | 1040                           | 106 |
|              |                                                 |                            |                                                |                               |                  | 1/15                         | 1/15                                   | 100                         | 124                                             | 12.7                     | 4070                       | 415                      | 1067                           | 109 |
|              |                                                 |                            |                                                |                               |                  | 1/20                         | 1/20                                   | 75                          | 166                                             | 16.9                     | 4460                       | 455                      | 1067                           | 109 |
|              |                                                 |                            |                                                |                               |                  | 1/25                         | 1/25                                   | 60                          | 208                                             | 21.2                     | 4700                       | 480                      | 1067                           | 109 |
|              |                                                 |                            |                                                |                               |                  | 1/30                         | 1/30                                   | 50                          | 249                                             | 25.4                     | 4750                       | 485                      | 1067                           | 109 |
|              |                                                 |                            |                                                |                               |                  | 1/40                         | 1/40                                   | 37.5                        | 332                                             | 33.9                     | 4750                       | 485                      | 1067                           | 109 |
|              |                                                 |                            |                                                |                               |                  | 1/50                         | 19/940                                 | 30                          | 416                                             | 42.4                     | 4750                       | 485                      | 1067                           | 109 |
|              |                                                 |                            |                                                |                               |                  | 1/60                         | 1/60                                   | 25                          | 498                                             | 50.8                     | 4750                       | 485                      | 1067                           | 109 |
|              |                                                 | C-26                       | Φ40d<br>(12)                                   | C-42                          | B                | 1/80                         | 1/80                                   | 18.8                        | 554                                             | 56.5                     | 4750                       | 485                      | 1177                           | 120 |
|              |                                                 |                            |                                                |                               |                  | 1/100                        | 19/1880                                | 15                          | 554                                             | 56.5                     | 4750                       | 485                      | 1177                           | 120 |
|              |                                                 |                            |                                                |                               |                  | 1/120                        | 1/120                                  | 12.5                        | 554                                             | 56.5                     | 4750                       | 485                      | 1177                           | 120 |
|              |                                                 |                            |                                                |                               |                  | *1/160                       | 1/160                                  | 9.4                         | 554                                             | 56.5                     | 4750                       | 485                      | 1177                           | 120 |
|              |                                                 |                            |                                                |                               |                  | *1/200                       | 1/200                                  | 7.5                         | 554                                             | 56.5                     | 4750                       | 485                      | 1177                           | 120 |
|              |                                                 |                            |                                                |                               |                  | *1/240                       | 1/240                                  | 6.3                         | 554                                             | 56.5                     | 4750                       | 485                      | 1177                           | 120 |

Note: 1. Allow O.H.L to be the value of output shaft end face at 20mm. ( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2. Output speed = motor/reduction ratio. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ Marked as torque limited. 3.※標記為轉矩力受限機型。



1.5kW  
1-PHASE/3-PHASE  
單相/三相



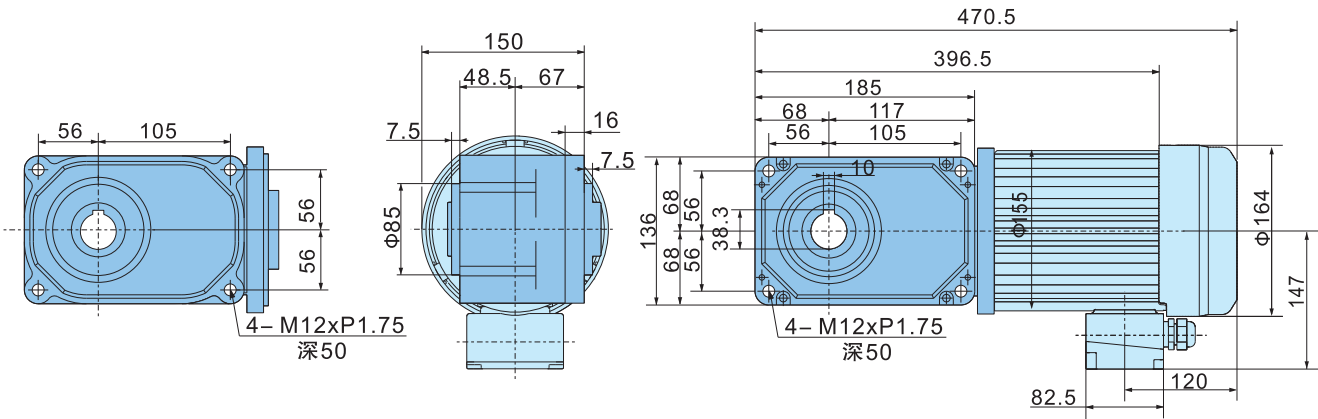
A-F3S55 ( 16 ) N- ( 5~60 ) K-X160+1500WS3F      A-F3F50 ( 14 ) T- ( 5~60 ) K-X160+1500WS3F  
B-F3S55 ( 16 ) N- ( 70~240 ) K-X160+1500WS3F      B-F3F50 ( 14 ) T- ( 70~240 ) K-X160+1500WS3F

| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 1.5kW       | 380                       | 50                           | 3.3                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 5.6                          | 1400                        |                          |                          |

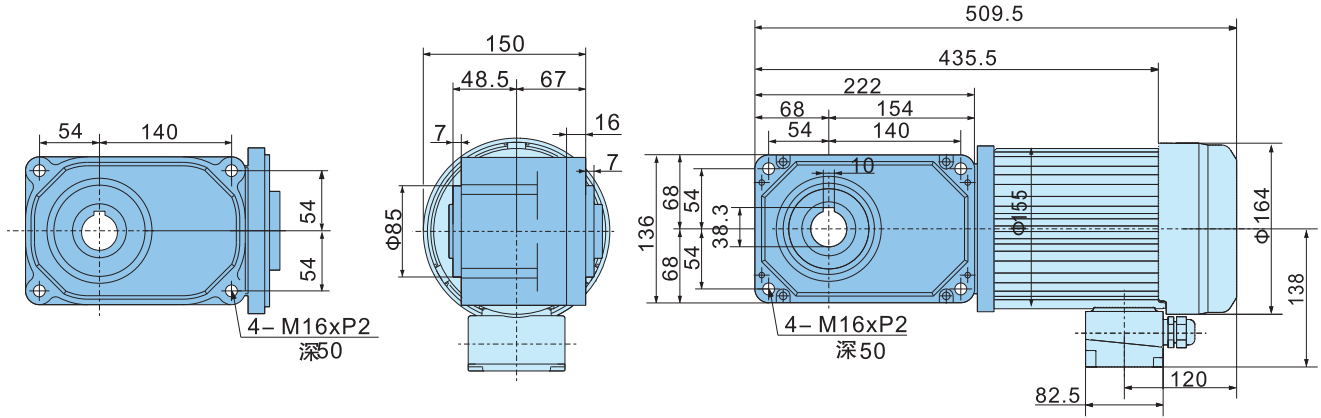
| Power<br>功率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction<br>ratio<br>實際減速比<br>( 分數 ) | Speed<br>轉速(rpm) | Output Torque<br>輸出軸容許轉矩力<br>N · m      kgf · m |      | Output O.H.L<br>輸出軸容許O.H.L |      | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|-------------|-------------------------------------------------|------------------------------------------------|---------------------|--------------|---------------------------------------|------------------|-------------------------------------------------|------|----------------------------|------|--------------------------------|-----|
| 1.5kW       | Φ55D<br>(16)                                    | C-27                                           | A                   | 1/5          | 1/5                                   | 300              | 41                                              | 4.2  | 4700                       | 480  | 1177                           | 120 |
|             |                                                 |                                                |                     | 1/7.5        | 2/15                                  | 200              | 63                                              | 6.4  | 5340                       | 545  | 1324                           | 135 |
|             |                                                 |                                                |                     | 1/10         | 1/10                                  | 150              | 83                                              | 8.5  | 5780                       | 590  | 1422                           | 145 |
|             |                                                 |                                                |                     | 1/12.5       | 4/49                                  | 120              | 104                                             | 10.6 | 6130                       | 625  | 1520                           | 155 |
|             |                                                 |                                                |                     | 1/15         | 1/15                                  | 100              | 124                                             | 12.7 | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |                                                |                     | 1/20         | 14/275                                | 75               | 166                                             | 16.9 | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |                                                |                     | 1/25         | 11/280                                | 60               | 208                                             | 21.2 | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |                                                |                     | 1/30         | 2/59                                  | 50               | 249                                             | 25.4 | 6320                       | 645  | 1569                           | 160 |
|             | C-28                                            | C-42                                           | B                   | 1/40         | 1/40                                  | 37.5             | 332                                             | 33.9 | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |                                                |                     | 1/50         | 1/49                                  | 30               | 416                                             | 42.4 | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |                                                |                     | 1/60         | 1/60                                  | 25               | 498                                             | 50.8 | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |                                                |                     | 1/80         | 1/80                                  | 18.8             | 631                                             | 64.4 | 6420                       | 655  | 1618                           | 165 |
|             |                                                 |                                                |                     | 1/100        | 19/1880                               | 15               | 789                                             | 80.5 | 6420                       | 655  | 1618                           | 165 |
|             |                                                 |                                                |                     | 1/120        | 1/120                                 | 12.5             | 947                                             | 96.6 | 7500                       | 765  | 1863                           | 190 |
|             |                                                 |                                                |                     | 1/160        | 1/160                                 | 9.4              | 1264                                            | 129  | 8330                       | 850  | 2059                           | 210 |
|             |                                                 |                                                |                     | 1/200        | 1/200                                 | 7.5              | 1264                                            | 129  | 9020                       | 920  | 2256                           | 230 |
|             |                                                 |                                                |                     | 1/240        | 1/240                                 | 6.3              | 1264                                            | 129  | 9800                       | 1000 | 2452                           | 250 |

Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm. (注) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.\* Marked as torque limited. 3.\*標記為轉矩力受限機型。

圖C-23 A-F3S35 ( 10 ) N- ( 5~30 ) K-X140+1500WS3F

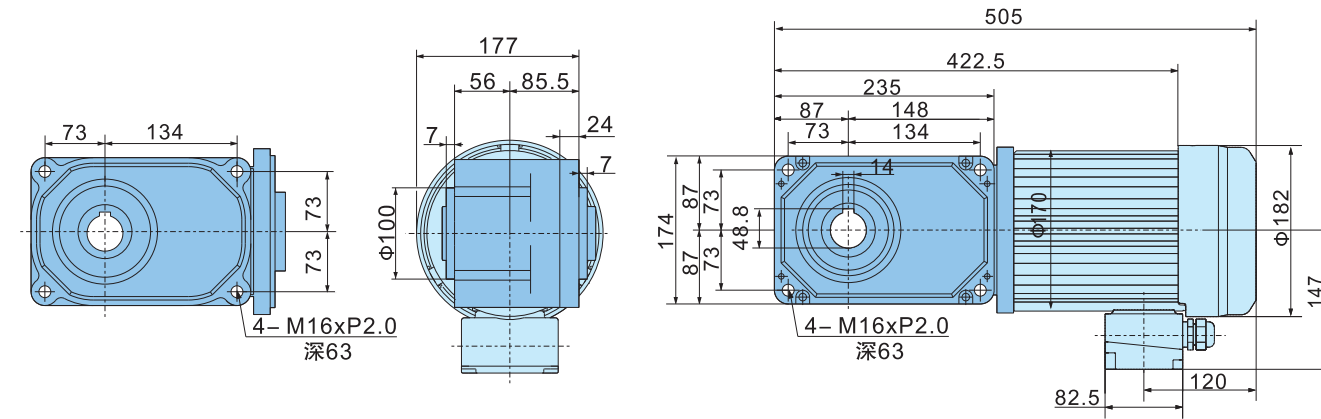


圖C-24 B-F3S35 ( 10 ) - ( 35~120 ) K-X140+1500WS3F



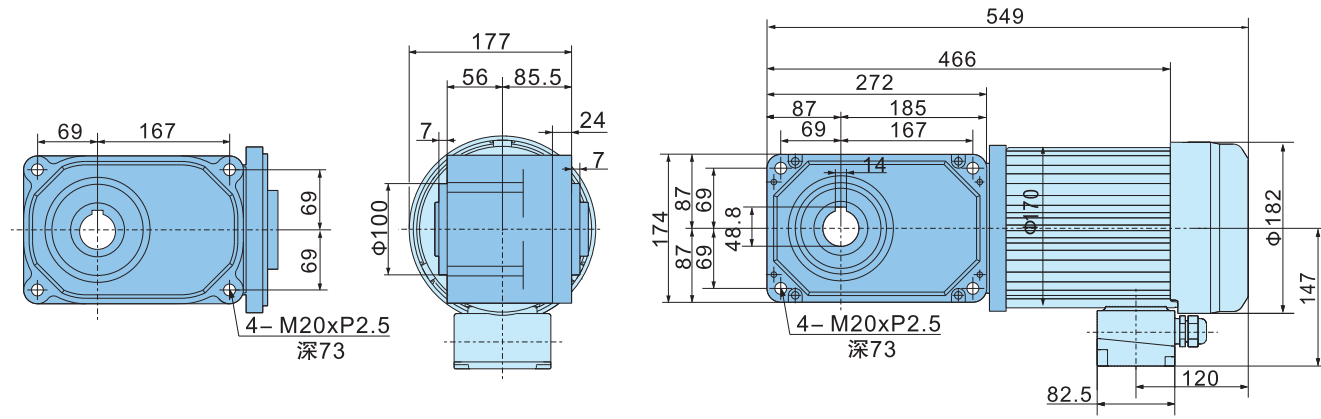
Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

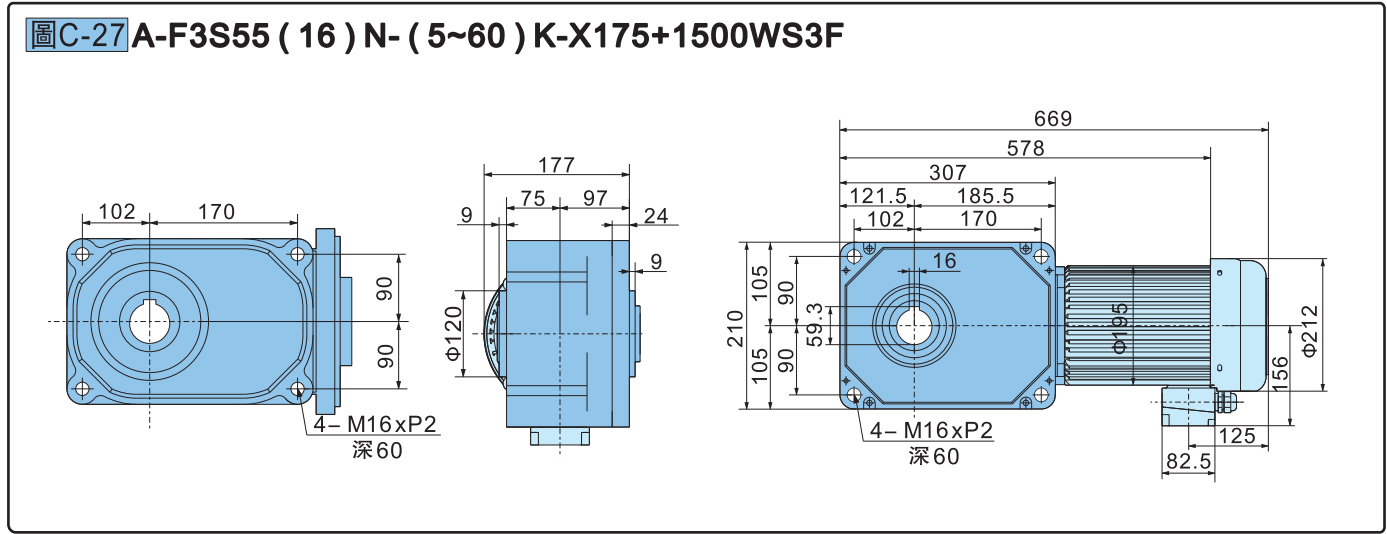
圖C-25 A-F3S45 ( 14 ) N- ( 5~60 ) K-X160+1500WS3F



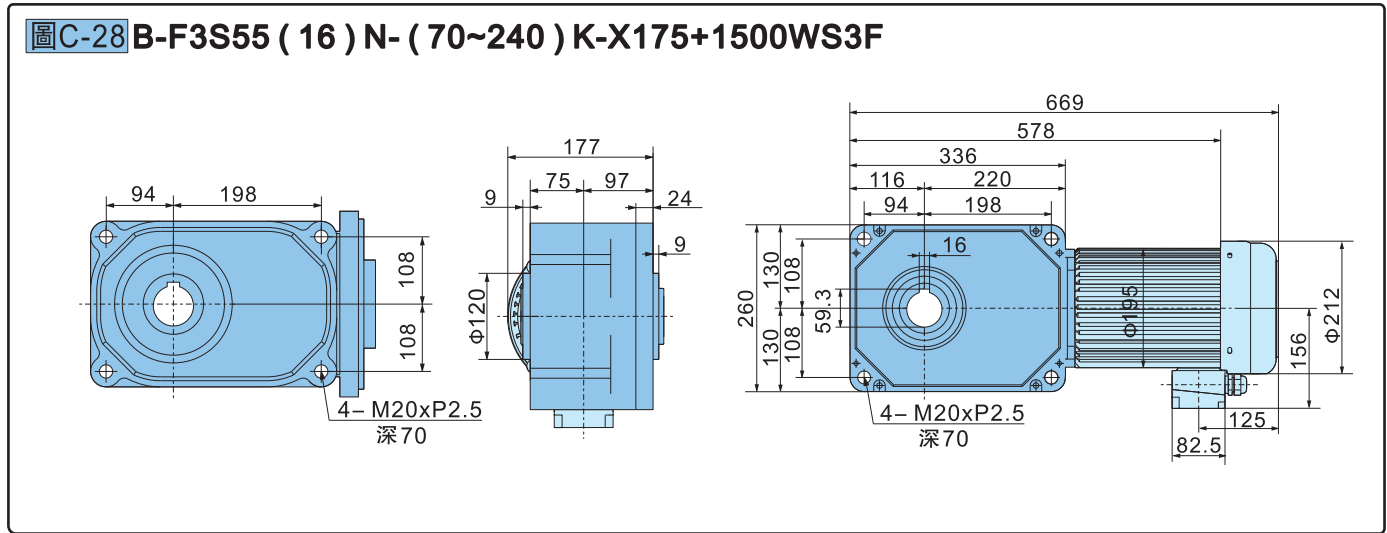
Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

圖C-26 B-F3S45 ( 14 ) - ( 70~240 ) K-X160+1500WS3F





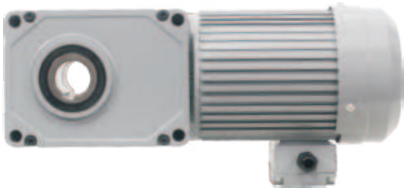
Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。



Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

2.2kW

1-PHASE/3-PHASE  
單相/三相



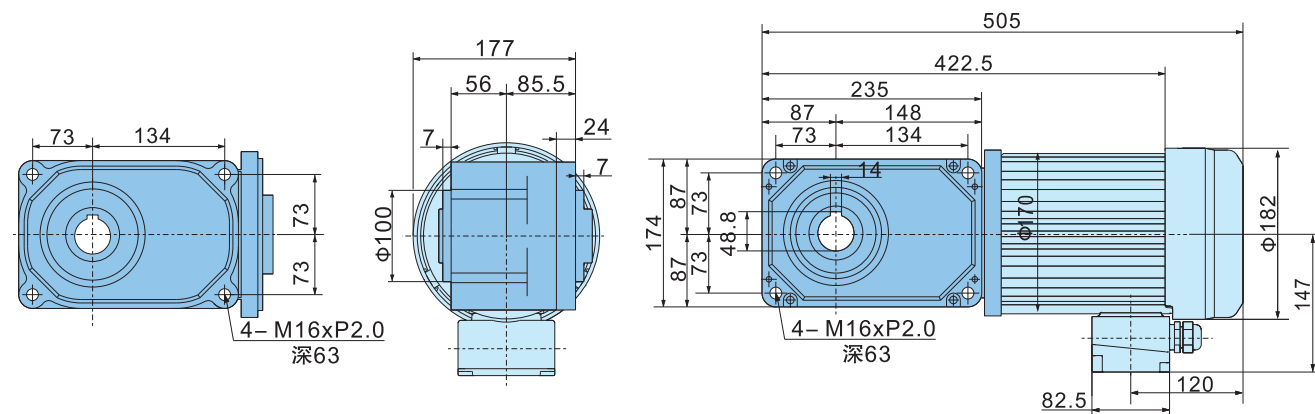
A-F3S45 ( 14 ) N- ( 5~30 ) K-X160+2200WS3F  
A-F3S55 ( 16 ) N- ( 5~60 ) K-X175+2200WS3F

A-F3F40 ( 12 ) T- ( 5~30 ) K-X160+2200WS3F  
A-F3F50 ( 14 ) T- ( 5~60 ) K-X175+2200WS3F

| Power<br>功 率 |                                                 | Rated Voltage<br>電 壓 ( V ) |                                                | Rated Frequency<br>頻 率 ( Hz ) |                  | Rated Currment<br>額定電流 ( A ) |                                        | Rated Speed<br>額定轉速 ( rpm ) |                                                 | Insucation class<br>絕緣等級 |                            | Protection class<br>防護等級 |                                |     |
|--------------|-------------------------------------------------|----------------------------|------------------------------------------------|-------------------------------|------------------|------------------------------|----------------------------------------|-----------------------------|-------------------------------------------------|--------------------------|----------------------------|--------------------------|--------------------------------|-----|
| 2.2kW        |                                                 | 380                        |                                                | 50                            |                  | 4.6                          |                                        | 1400                        |                                                 | B                        |                            | 20 54                    |                                |     |
|              |                                                 | 220                        |                                                | 50                            |                  | 8.0                          |                                        | 1400                        |                                                 |                          |                            |                          |                                |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 |                          |                            |                          |                                |     |
| Power<br>功 率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |                            | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |                               | Gear case<br>齒輪箱 | Ratio<br>減速比                 | Reduction<br>ratio<br>實際減速比<br>( 分 數 ) | Speed<br>轉速(rpm)            | Output Torque<br>輸出軸容許轉矩力<br>N · m      kgf · m |                          | Output O.H.L<br>輸出軸容許O.H.L |                          | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        | 50Hz                        | 50Hz                                            | 50Hz                     | N                          | kgf                      | N                              | kgf |
| 2.2kW        | Φ45D<br>(14)                                    | C-29                       | Φ40d<br>(12)                                   | C-42                          | A                | 1/5                          | 1/5                                    | 300                         | 61                                              | 6.2                      | 2940                       | 300                      | 800                            | 82  |
|              |                                                 |                            |                                                |                               |                  | 1/7.5                        | 2/15                                   | 200                         | 91                                              | 9.5                      | 3330                       | 340                      | 900                            | 92  |
|              |                                                 |                            |                                                |                               |                  | 1/10                         | 1/10                                   | 150                         | 122                                             | 12.4                     | 3630                       | 370                      | 967                            | 99  |
|              |                                                 |                            |                                                |                               |                  | 1/12.5                       | 19/235                                 | 120                         | 152                                             | 15.5                     | 3920                       | 400                      | 1040                           | 106 |
|              |                                                 |                            |                                                |                               |                  | 1/15                         | 1/15                                   | 100                         | 182                                             | 18.6                     | 4070                       | 415                      | 1067                           | 109 |
|              |                                                 |                            |                                                |                               |                  | 1/20                         | 1/20                                   | 75                          | 244                                             | 24.9                     | 4460                       | 455                      | 1067                           | 109 |
|              |                                                 |                            |                                                |                               | B                | 1/25                         | 1/25                                   | 60                          | 305                                             | 31.1                     | 4700                       | 480                      | 1067                           | 109 |
|              |                                                 |                            |                                                |                               |                  | 1/30                         | 1/30                                   | 50                          | 366                                             | 37.3                     | 4750                       | 485                      | 1067                           | 109 |
|              |                                                 |                            |                                                |                               |                  | 1/40                         | 1/40                                   | 37.5                        | 487                                             | 49.7                     | 4750                       | 485                      | 1067                           | 109 |
|              |                                                 |                            |                                                |                               |                  | 1/50                         | 19/940                                 | 30                          | 554                                             | 56.5                     | 4750                       | 485                      | 1067                           | 109 |
|              |                                                 |                            |                                                |                               |                  | 1/60                         | 1/60                                   | 25                          | 554                                             | 56.5                     | 4750                       | 485                      | 1067                           | 109 |
|              |                                                 |                            |                                                |                               |                  | *1/80                        | 1/80                                   | 18.8                        | 554                                             | 56.5                     | 4750                       | 485                      | 1177                           | 120 |
|              | Φ55D<br>(16)                                    | C-30                       | Φ50d<br>(14)                                   | C-42                          | A                | *1/100                       | 1/100                                  | 15                          | 554                                             | 56.5                     | 4750                       | 485                      | 1177                           | 120 |
|              |                                                 |                            |                                                |                               |                  | *1/120                       | 1/120                                  | 12.5                        | 554                                             | 56.5                     | 4750                       | 485                      | 1177                           | 120 |
|              |                                                 |                            |                                                |                               |                  | 1/5                          | 1/5                                    | 300                         | 63.7                                            | 6.5                      | 4700                       | 480                      | 1177                           | 120 |
|              |                                                 |                            |                                                |                               |                  | 1/7.5                        | 2/15                                   | 200                         | 95.6                                            | 9.7                      | 5340                       | 545                      | 1324                           | 135 |
|              |                                                 |                            |                                                |                               |                  | 1/10                         | 1/10                                   | 150                         | 127.5                                           | 13                       | 5780                       | 590                      | 1422                           | 145 |
|              |                                                 |                            |                                                |                               |                  | 1/12.5                       | 4/49                                   | 120                         | 159                                             | 16.2                     | 6130                       | 625                      | 1520                           | 155 |
|              |                                                 |                            |                                                |                               | B                | 1/15                         | 1/15                                   | 100                         | 191                                             | 19.4                     | 6320                       | 645                      | 1569                           | 160 |
|              |                                                 |                            |                                                |                               |                  | 1/20                         | 1/20                                   | 75                          | 251.2                                           | 25.6                     | 6320                       | 645                      | 1569                           | 160 |
|              |                                                 |                            |                                                |                               |                  | 1/25                         | 1/25                                   | 60                          | 319                                             | 32.5                     | 6320                       | 645                      | 1569                           | 160 |
|              |                                                 |                            |                                                |                               |                  | 1/30                         | 1/30                                   | 50                          | 382                                             | 39                       | 6320                       | 645                      | 1569                           | 160 |
|              |                                                 |                            |                                                |                               |                  | 1/40                         | 1/40                                   | 37.5                        | 503                                             | 51                       | 6320                       | 645                      | 1569                           | 160 |
|              |                                                 |                            |                                                |                               |                  | 1/50                         | 1/49                                   | 30                          | 631                                             | 64                       | 6320                       | 645                      | 1569                           | 160 |
|              | C-31                                            | C-42                       | A                                              | 1/60                          | 1/60             | 25                           | 765                                    | 78                          | 6320                                            | 645                      | 1569                       | 160                      |                                |     |
|              |                                                 |                            |                                                | 1/80                          | 1/80             | 18.8                         | 1020                                   | 104                         | 6420                                            | 655                      | 1618                       | 165                      |                                |     |
|              |                                                 |                            |                                                | 1/100                         | 1/100            | 15                           | 1030                                   | 105                         | 6420                                            | 655                      | 1618                       | 165                      |                                |     |
|              |                                                 |                            |                                                | 1/120                         | 1/120            | 12.5                         | 1030                                   | 105                         | 7500                                            | 765                      | 1863                       | 190                      |                                |     |
|              |                                                 |                            |                                                | *1/160                        | 1/160            | 9.4                          | 1030                                   | 105                         | 7500                                            | 765                      | 1863                       | 190                      |                                |     |
|              |                                                 |                            |                                                | *1/200                        | 1/200            | 7.5                          | 1030                                   | 105                         | 7500                                            | 765                      | 1863                       | 190                      |                                |     |
|              | C-32                                            | C-42                       | B                                              | *1/240                        | 1/240            | 6.3                          | 1030                                   | 105                         | 7500                                            | 765                      | 1863                       | 190                      |                                |     |

Note: 1. Allow O.H.L to be the value of output shaft end face at 20mm. ( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2. Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ Marked as torque limited. 3.※標記為轉矩力受限機型。

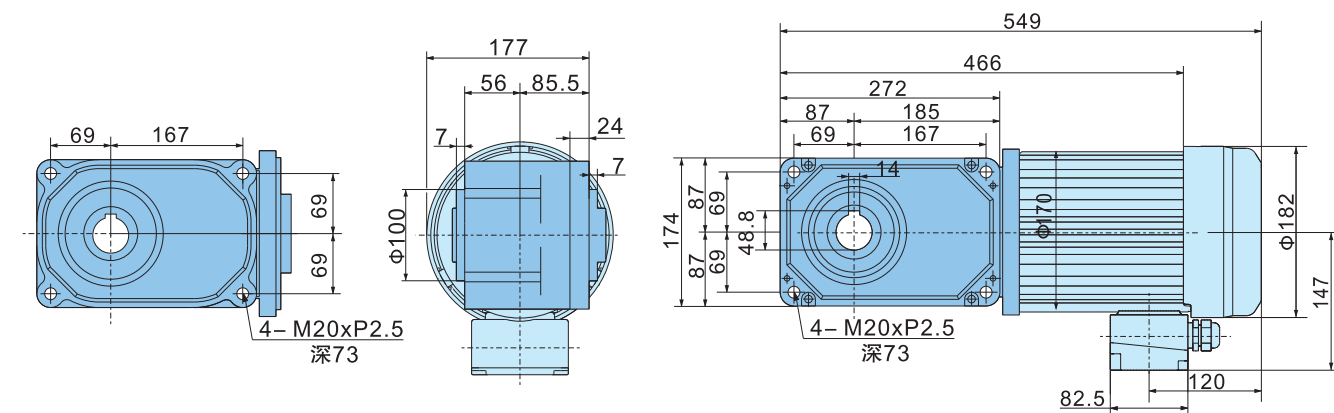
圖C-29 A-F3S45 ( 14 ) N- ( 5~20 ) K-X160+2200WS3F



Note: See page 101 for detailed dimensions of output shaft.

( 注 ) : 輸出軸部詳細尺寸見101頁。

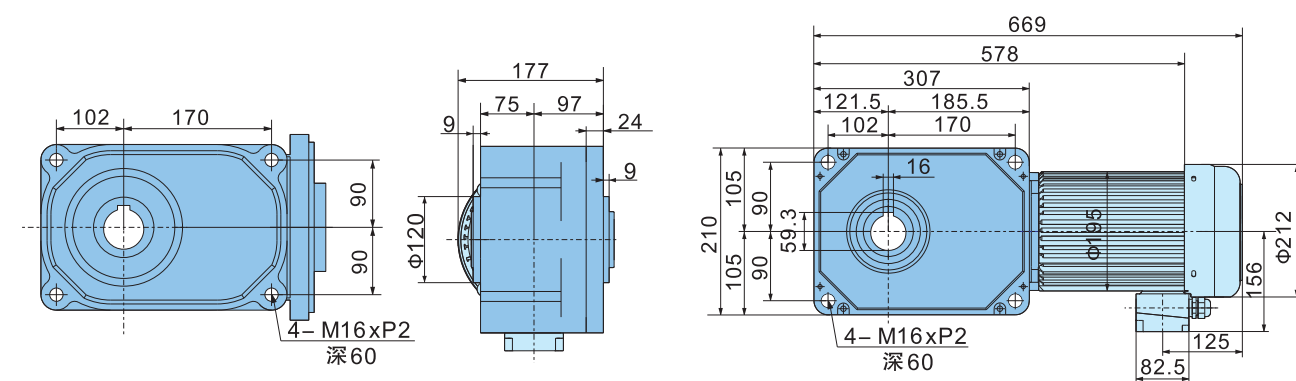
圖C-30 B-F3S45 ( 14 ) N- ( 25~120 ) K-X160+2200WS3F



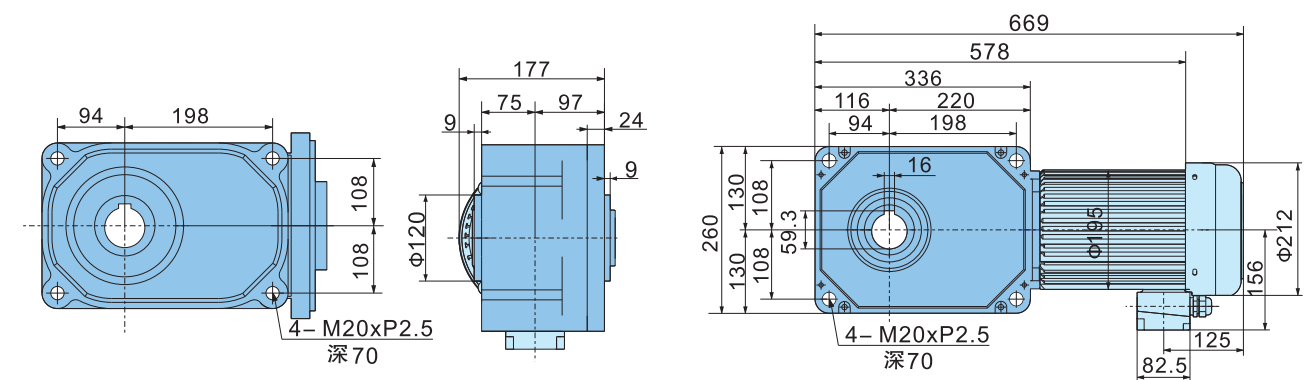
Note: See page 101 for detailed dimensions of output shaft.

( 注 ) : 輸出軸部詳細尺寸見101頁。

圖C-31 A-F3S55 ( 16 ) - ( 5~60 ) K-X175+2200WS3F



圖C-32 B-F3S55 ( 16 ) - ( 70~240 ) K-X175+2200WS3F



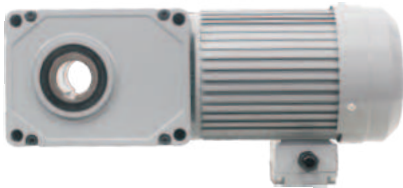
Note: See page 101 for detailed dimensions of output shaft.

( 注 ) : 輸出軸部詳細尺寸見101頁。



3.7kW

1-PHASE/3-PHASE  
單相/三相



A-F3S55 ( 16 ) N- ( 5~30 ) K-X175+3700WS3F

A-F3F50 ( 14 ) T- ( 5~30 ) K-X175+3700WS3F

B-F3S55 ( 16 ) N- ( 35~120 ) K-X175+3700WS3F

B-F3F50 ( 14 ) T- ( 35~120 ) K-X175+3700WS3F

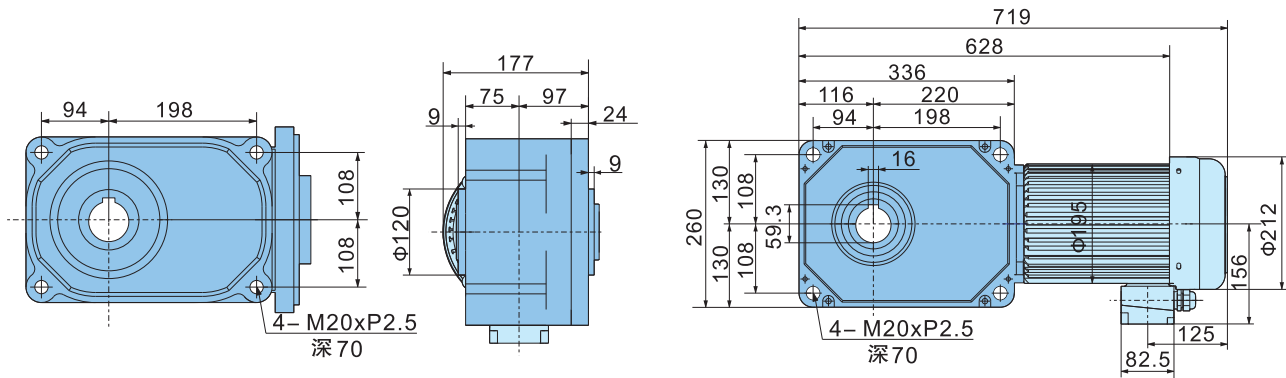
| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 3.7kW       | 380                       | 50                           | 7.5                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 10.8                         | 1400                        |                          |                          |

| Power<br>功率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction<br>ratio<br>實際減速比<br>( 分數 ) | Speed<br>轉速(rpm) | Output Torque<br>輸出軸容許轉矩力<br>N · m      kgf · m |       | Output O.H.L<br>輸出軸容許O.H.L |     | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|-------------|-------------------------------------------------|------------------------------------------------|---------------------|--------------|---------------------------------------|------------------|-------------------------------------------------|-------|----------------------------|-----|--------------------------------|-----|
| 3.7kW       | Φ55D<br>(16)                                    | Φ50d<br>(14)                                   | A                   | 1/5          | 1/5                                   | 300              | 102                                             | 10.4  | 4700                       | 480 | 1177                           | 120 |
|             |                                                 |                                                |                     | 1/7.5        | 2/15                                  | 200              | 154                                             | 15.7  | 5340                       | 545 | 1324                           | 135 |
|             |                                                 |                                                |                     | 1/10         | 1/10                                  | 150              | 205                                             | 21    | 5780                       | 590 | 1422                           | 145 |
|             |                                                 |                                                |                     | 1/12.5       | 4/49                                  | 120              | 256                                             | 26    | 6130                       | 625 | 1520                           | 155 |
|             |                                                 |                                                |                     | 1/15         | 1/15                                  | 30               | 307                                             | 31.4  | 6320                       | 645 | 1569                           | 160 |
|             |                                                 |                                                |                     | 1/20         | 1/20                                  | 75               | 410                                             | 41.8  | 6320                       | 645 | 1569                           | 160 |
|             |                                                 |                                                |                     | 1/25         | 1/25                                  | 60               | 512                                             | 52.3  | 6320                       | 645 | 1569                           | 160 |
|             |                                                 |                                                |                     | 1/30         | 1/30                                  | 50               | 615                                             | 62.7  | 6320                       | 645 | 1569                           | 160 |
|             | C-34                                            |                                                | B                   | 1/40         | 1/40                                  | 37.5             | 820                                             | 83.7  | 6320                       | 645 | 1569                           | 160 |
|             |                                                 |                                                |                     | 1/50         | 1/49                                  | 30               | 1025                                            | 104.6 | 6320                       | 645 | 1569                           | 160 |
|             |                                                 |                                                |                     | 1/60         | 1/60                                  | 25               | 1230                                            | 25.5  | 6320                       | 645 | 1569                           | 160 |
|             |                                                 |                                                |                     | *1/80        | 1/80                                  | 18.8             | 1264                                            | 129   | 6320                       | 645 | 1569                           | 160 |
|             |                                                 |                                                |                     | *1/100       | 1/100                                 | 15               | 1264                                            | 129   | 6320                       | 645 | 1569                           | 160 |
|             |                                                 |                                                |                     | *1/120       | 1/120                                 | 12.5             | 1264                                            | 129   | 6320                       | 645 | 1569                           | 160 |

Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm. 2.Output speed = motor/reduction ration. 3.\* Marked as torque limited.

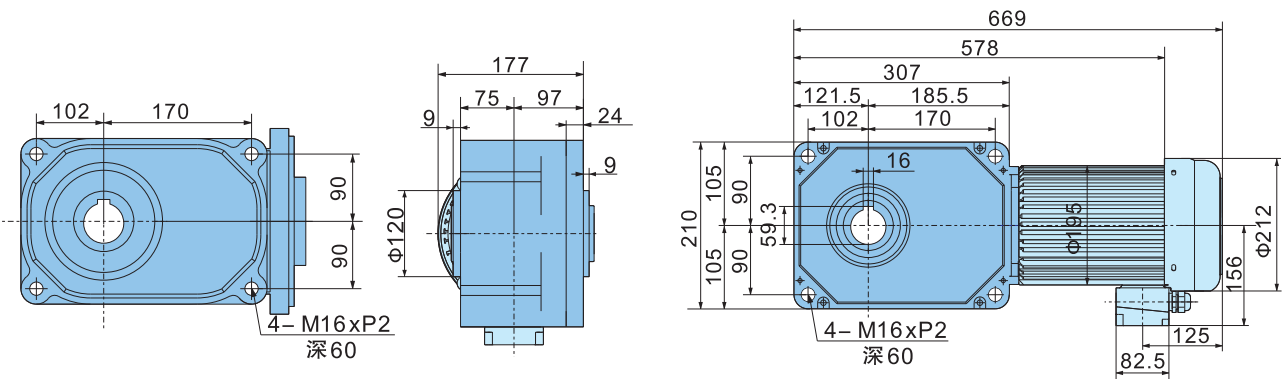
( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。 3.\*標記為轉矩力受限機型。

圖C-34 B-F3S55 ( 16 ) N- ( 35~120 ) K-X175+3700WS3F



Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

圖C-33 A-F3S55 ( 16 ) N- ( 5~30 ) K-X175+3700WS3F



1-PHASE/3-PHASE  
單相/三相



F3S35 ( 10 ) NM25- ( 250~2400 ) K  
-X101+100WS3F



F3F32 ( 10 ) TM25- ( 250~2400 ) K  
-X101+100WS3F

| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.1kW       | 380                       | 50                           | 0.31                         | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 0.52                         | 1400                        |                          |                          |

| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.2kW       | 380                       | 50                           | 0.56                         | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 0.92                         | 1400                        |                          |                          |

| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.4kW       | 380                       | 50                           | 1.0                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 1.8                          | 1400                        |                          |                          |

| Power<br>功率 | Dimension drawing<br>of Hollow shaft<br>中空軸 外形圖 |      | Dimension drawing<br>of Solid shaft<br>實心軸軸部 尺寸圖 |      | Ratio<br>減速比 | Reduction<br>ratio<br>實際減速比<br>( 分數 ) | Speed<br>轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |      | Output O.H.L<br>輸出軸容許O.H.L |     | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|-------------|-------------------------------------------------|------|--------------------------------------------------|------|--------------|---------------------------------------|------------------|---------------------------|------|----------------------------|-----|--------------------------------|-----|
|             |                                                 |      |                                                  |      |              |                                       | 50Hz             | 50Hz                      | 50Hz | N                          | kgf | N                              | kgf |
| 0.1kW       | Φ35D<br>(10)                                    | C-35 | Φ30d<br>(10)                                     | C-42 | 1/250        | 29/7200                               | 6                | 145                       | 14.8 | 3630                       | 370 | 912                            | 93  |
|             |                                                 |      |                                                  |      | 1/300        | 1/300                                 | 5                | 174                       | 17.7 | 3630                       | 370 | 912                            | 93  |
|             |                                                 |      |                                                  |      | 1/375        | 23/860                                | 4                | 217                       | 22   | 3630                       | 370 | 912                            | 93  |
|             |                                                 |      |                                                  |      | 1/400        | 1/400                                 | 3.75             | 232                       | 23.7 | 3630                       | 370 | 912                            | 93  |
|             |                                                 |      |                                                  |      | 1/500        | 11/5400                               | 3                | 290                       | 29.6 | 3630                       | 370 | 912                            | 93  |
|             |                                                 | C-36 |                                                  |      | 1/600        | 9/5500                                | 2.5              | 348                       | 35.5 | 3630                       | 370 | 912                            | 93  |
|             |                                                 |      |                                                  |      | 1/800        | 1/800                                 | 1.88             | 372                       | 38   | 3630                       | 370 | 912                            | 93  |
|             |                                                 |      |                                                  |      | 1/1000       | 19/18400                              | 1.5              | 372                       | 38   | 3630                       | 370 | 912                            | 93  |
|             |                                                 |      |                                                  |      | 1/1200       | 2/2450                                | 1.3              | 372                       | 38   | 3630                       | 370 | 912                            | 93  |
|             |                                                 |      |                                                  |      | 1/1600       | 1/1600                                | 0.94             | 372                       | 38   | 3630                       | 370 | 912                            | 93  |
| 0.2kW       | Φ35D<br>(10)                                    | C-37 | Φ30d<br>(10)                                     | C-42 | 1/250        | 29/7200                               | 6                | 290                       | 29.5 | 3630                       | 370 | 912                            | 93  |
|             |                                                 |      |                                                  |      | 1/300        | 1/300                                 | 5                | 348                       | 43.5 | 3630                       | 370 | 912                            | 93  |
|             |                                                 | C-38 |                                                  |      | 1/375        | 23/8600                               | 4                | 372                       | 38   | 3630                       | 370 | 912                            | 93  |
|             |                                                 |      |                                                  |      | 1/400        | 1/400                                 | 3.75             | 372                       | 38   | 3630                       | 370 | 912                            | 93  |
|             |                                                 |      |                                                  |      | 1/500        | 11/5400                               | 3                | 372                       | 38   | 3630                       | 530 | 912                            | 93  |
| 0.4kW       | Φ45D<br>(14)                                    | C-39 | Φ40d<br>(12)                                     | C-42 | 1/250        | 1/250                                 | 6                | 580                       | 59   | 5190                       | 530 | 1275                           | 130 |
|             |                                                 |      |                                                  |      | 1/300        | 1/300                                 | 5                | 696                       | 71   | 5190                       | 530 | 1275                           | 130 |
|             |                                                 |      |                                                  |      | 1/400        | 1/400                                 | 3.75             | 713                       | 72.8 | 5190                       | 530 | 1275                           | 130 |
|             |                                                 |      |                                                  |      | 1/500        | 19/9400                               | 3                | 713                       | 72.8 | 5190                       | 530 | 1275                           | 130 |
|             |                                                 | C-40 |                                                  |      | 1/600        | 1/600                                 | 2.5              | 713                       | 72.8 | 5190                       | 530 | 1275                           | 130 |
|             |                                                 |      |                                                  |      | 1/800        | 1/800                                 | 1.88             | 713                       | 72.8 | 5190                       | 530 | 1275                           | 130 |
|             |                                                 |      |                                                  |      | 1/1000       | 19/18800                              | 1.5              | 713                       | 72.8 | 5190                       | 530 | 1275                           | 130 |
|             |                                                 |      |                                                  |      | 1/1200       | 1/1200                                | 1.3              | 713                       | 72.8 | 5190                       | 530 | 1275                           | 130 |
|             |                                                 |      |                                                  |      | 1/1600       | 1/1600                                | 0.94             | 713                       | 72.8 | 5190                       | 530 | 1275                           | 130 |

1-PHASE/3-PHASE  
單相/三相



F3S35 ( 10 ) NM25- ( 150~1200 ) K  
-X101+200WS3F



F3F32 ( 10 ) TM25- ( 150~1200 ) K  
-X101+200WS3F

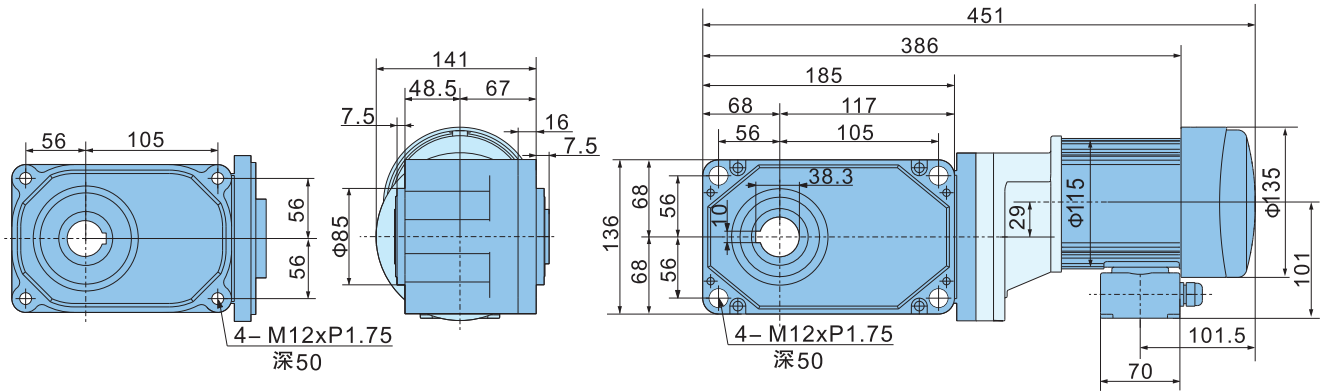
| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.75kW      | 380                       | 50                           | 1.8                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 3.2                          | 1400                        |                          |                          |

| Power<br>功率 | Dimension drawing<br>of Hollow shaft<br>中空軸 外形圖 |      | Dimension drawing<br>of Solid shaft<br>實心軸軸部 尺寸圖 |      | Ratio<br>減速比 | Reduction<br>ratio<br>實際減速比<br>( 分數 ) | Speed<br>轉速(rpm)<br>50Hz | Output Torque<br>輸出軸容許轉矩力 |                 | Output O.H.L<br>輸出軸容許O.H.L |             | Output shaft<br>輸出軸容許軸向<br>力負荷 |             |
|-------------|-------------------------------------------------|------|--------------------------------------------------|------|--------------|---------------------------------------|--------------------------|---------------------------|-----------------|----------------------------|-------------|--------------------------------|-------------|
|             |                                                 |      |                                                  |      |              |                                       |                          | N · m<br>50Hz             | kgf · m<br>50Hz | N<br>50Hz                  | kgf<br>50Hz | N<br>50Hz                      | kgf<br>50Hz |
| 0.75<br>kW  | Φ55D<br>(16)                                    | C-41 | Φ50d<br>(14)                                     | C-42 | 1/250        | 1/250                                 | 6                        | 1030                      | 105             | 9800                       | 1000        | 2452                           | 250         |
|             |                                                 |      |                                                  |      | 1/300        | 1/300                                 | 5                        | 1030                      | 105             | 9800                       | 1000        | 2452                           | 250         |
|             |                                                 |      |                                                  |      | 1/400        | 1/400                                 | 3.75                     | 1030                      | 105             | 9800                       | 1000        | 2452                           | 250         |
|             |                                                 |      |                                                  |      | 1/500        | 1/490                                 | 3                        | 1030                      | 105             | 9800                       | 1000        | 2452                           | 250         |
|             |                                                 |      |                                                  |      | 1/600        | 1/600                                 | 2.5                      | 1030                      | 105             | 9800                       | 1000        | 2452                           | 250         |
|             |                                                 |      |                                                  |      | 1/800        | 1/800                                 | 1.88                     | 1030                      | 105             | 9800                       | 1000        | 2452                           | 250         |
|             |                                                 |      |                                                  |      | 1/1000       | 1/980                                 | 1.5                      | 1030                      | 105             | 9800                       | 1000        | 2452                           | 250         |
|             |                                                 |      |                                                  |      | 1/1200       | 1/1200                                | 1.3                      | 1030                      | 105             | 9800                       | 1000        | 2452                           | 250         |
|             |                                                 |      |                                                  |      | 1/1600       | 1/1600                                | 0.94                     | 1030                      | 105             | 9800                       | 1000        | 2452                           | 250         |
|             |                                                 |      |                                                  |      |              |                                       |                          |                           |                 |                            |             |                                |             |

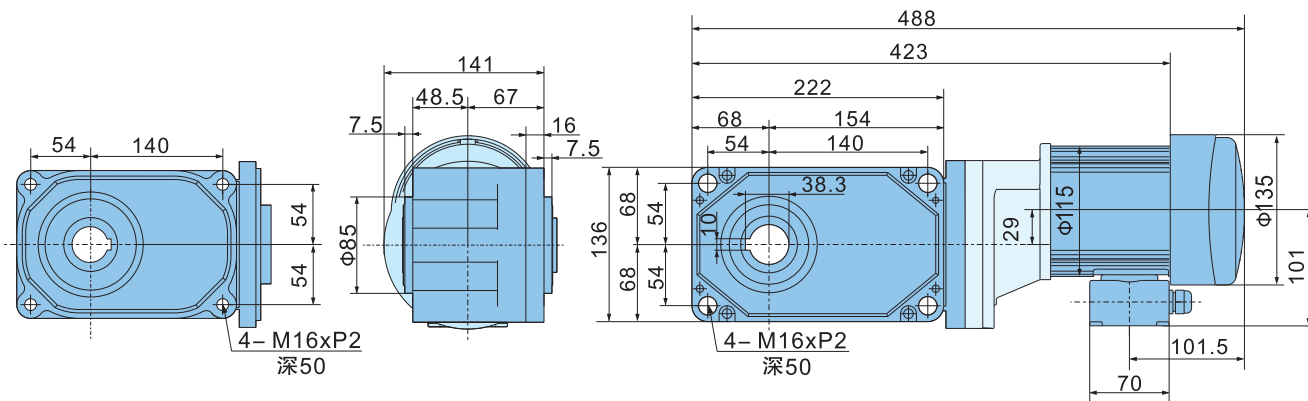
Note: 1. Allow O.H.L to be the value of output shaft end face at 20mm.  
2. Output speed = motor/reduction ration.  
3. ※ Marked as torque limited.

( 注 ) 1. 容許O.H.L為輸出軸端面20mm位置的數值。  
2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ 標記為轉矩力受限機型。

圖C-35 A-F3S35 ( 10 ) NM25- ( 250~600 ) K-X101+100WS3F

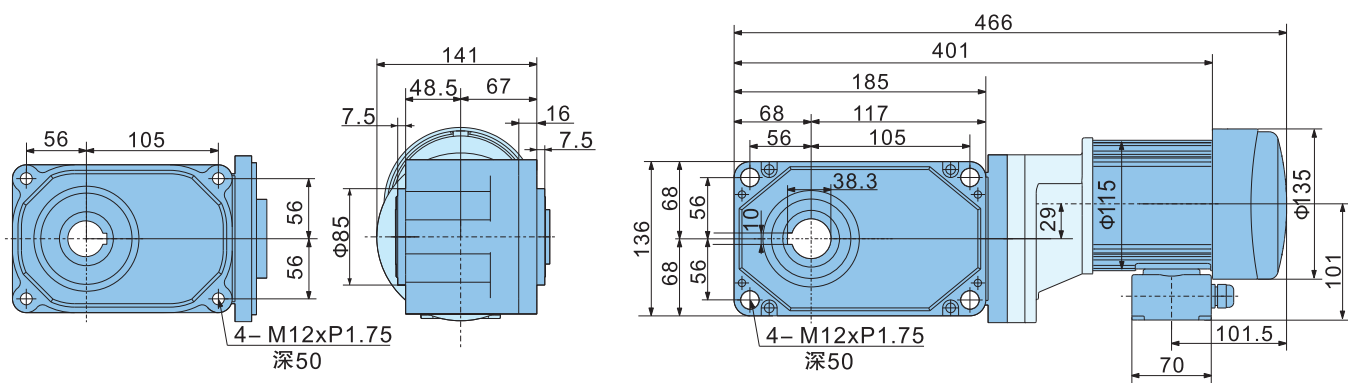


圖C-36 B-F3S35 ( 10 ) NM25- ( 600~2400 ) K-X101+100WS3F



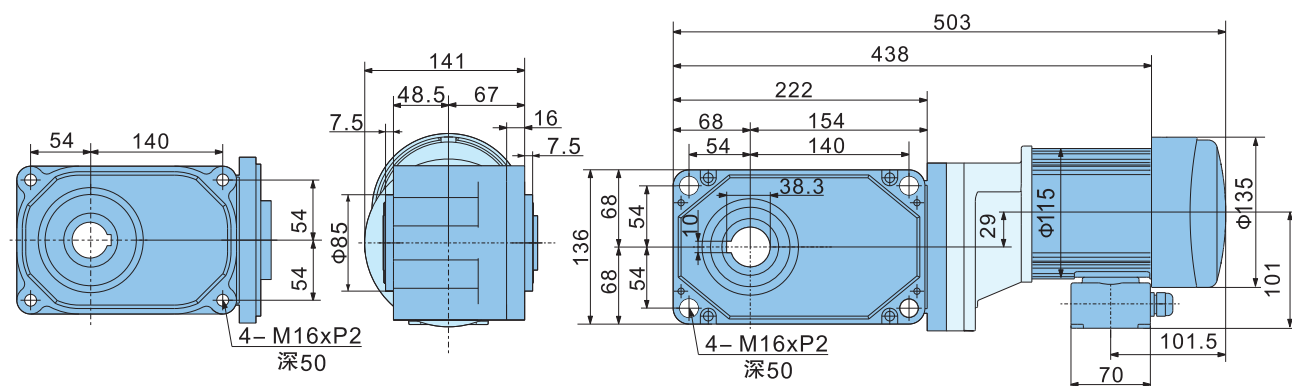
Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

圖C-37 A-F3S35 ( 10 ) NM25- ( 150~600 ) K-X101+200WS3F

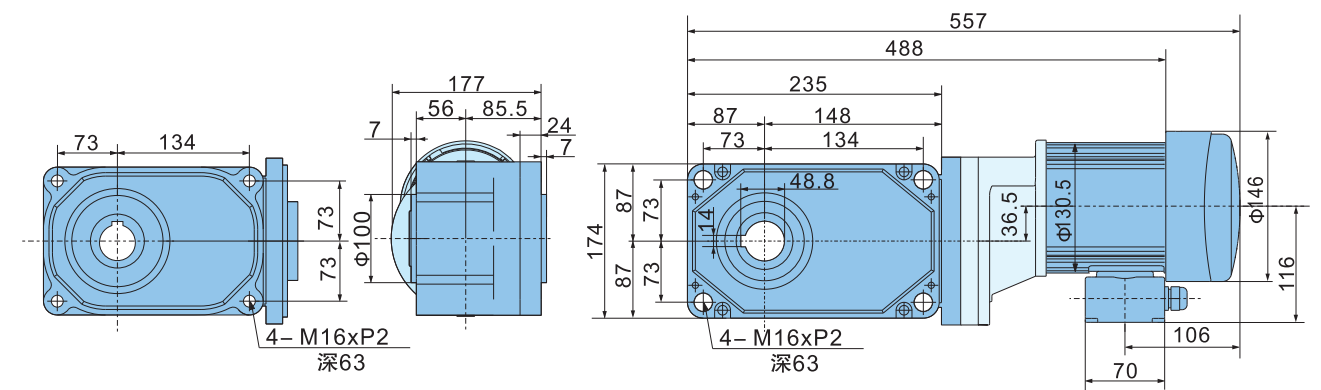


Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

圖C-38 B-F3S35 ( 10 ) NM25- ( 600~1200 ) K-X101+200WS3F

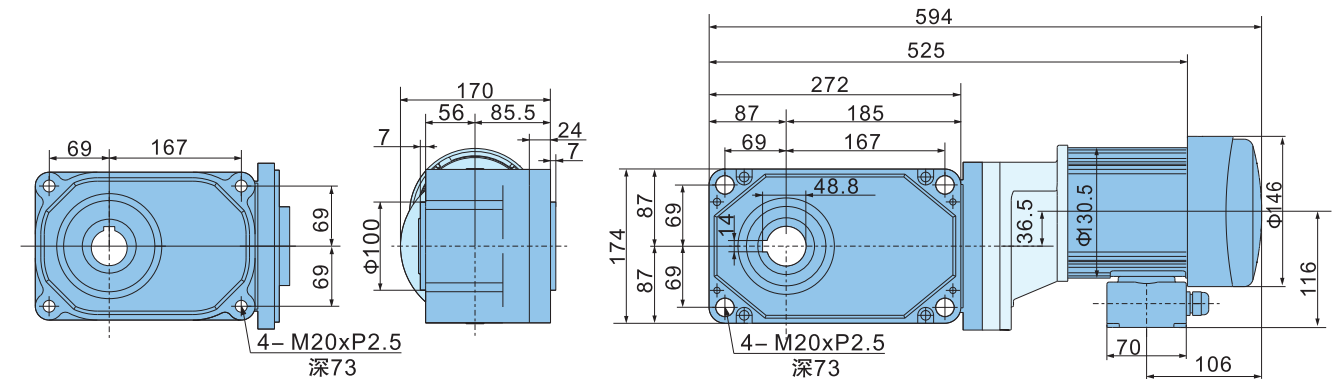


圖C-39 A-F3S45 ( 14 ) NM30- ( 150~600 ) K-X120+400WS3F



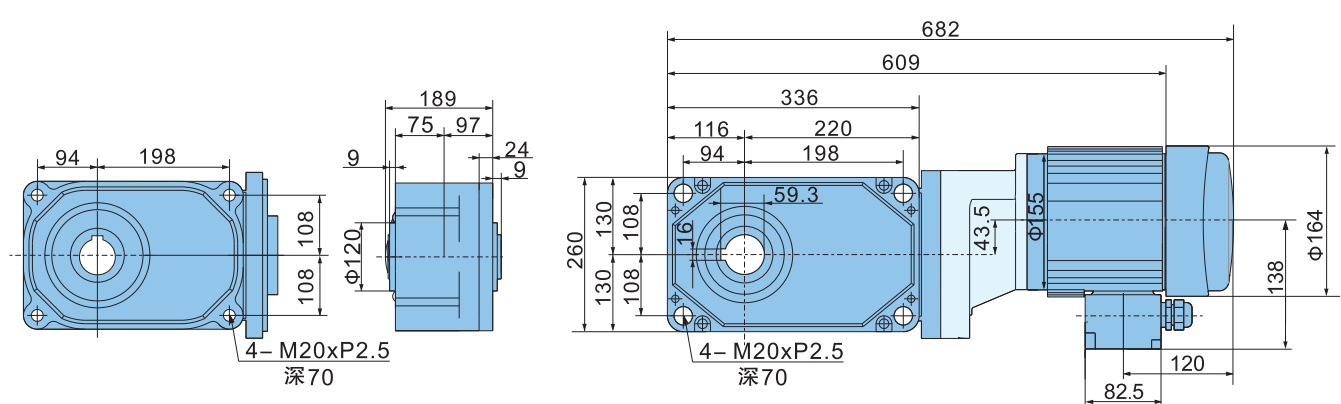
Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

圖C-40 B-F3S45 ( 14 ) NM30- ( 600~1200 ) K-X120+400WS3F



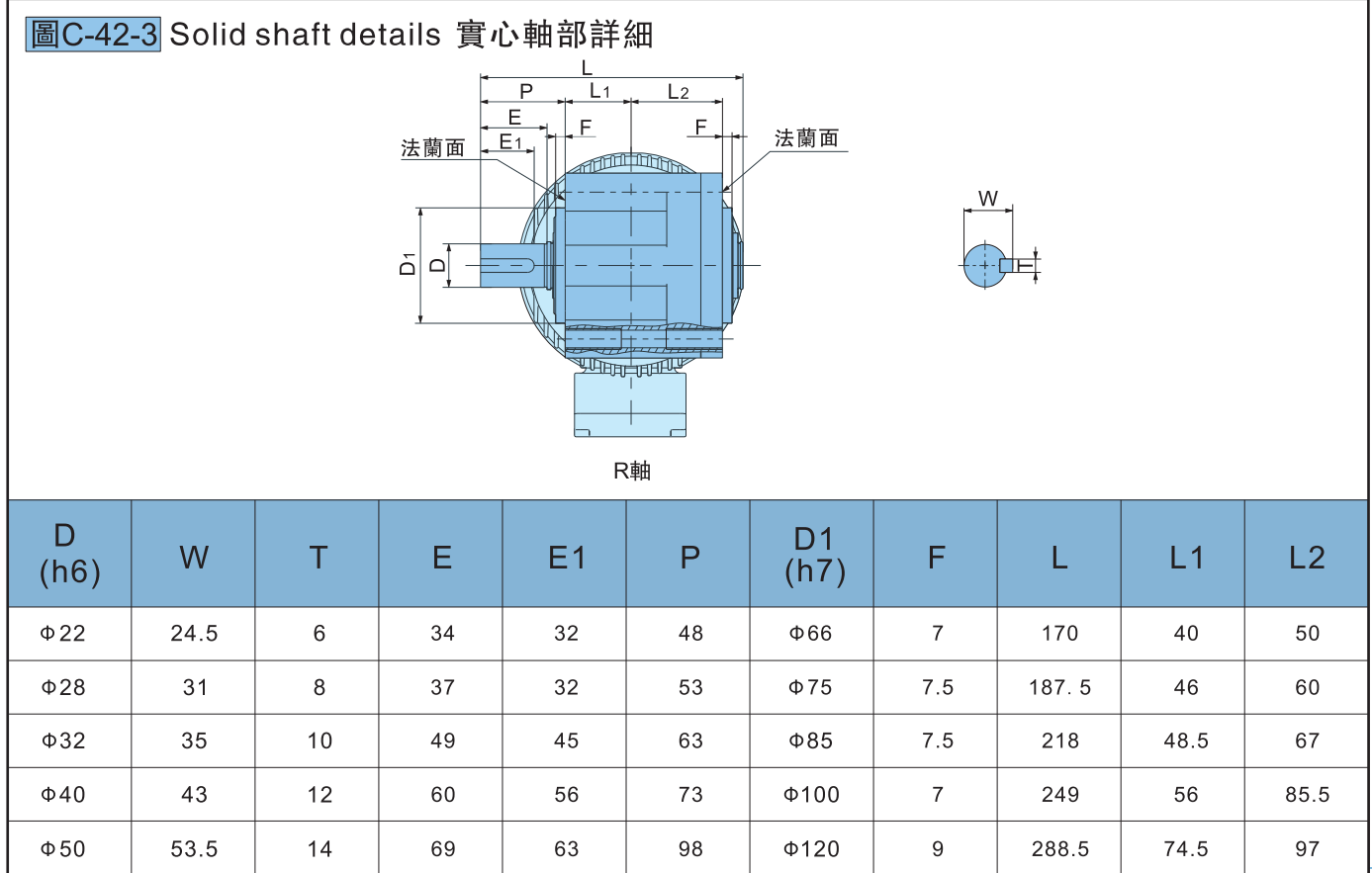
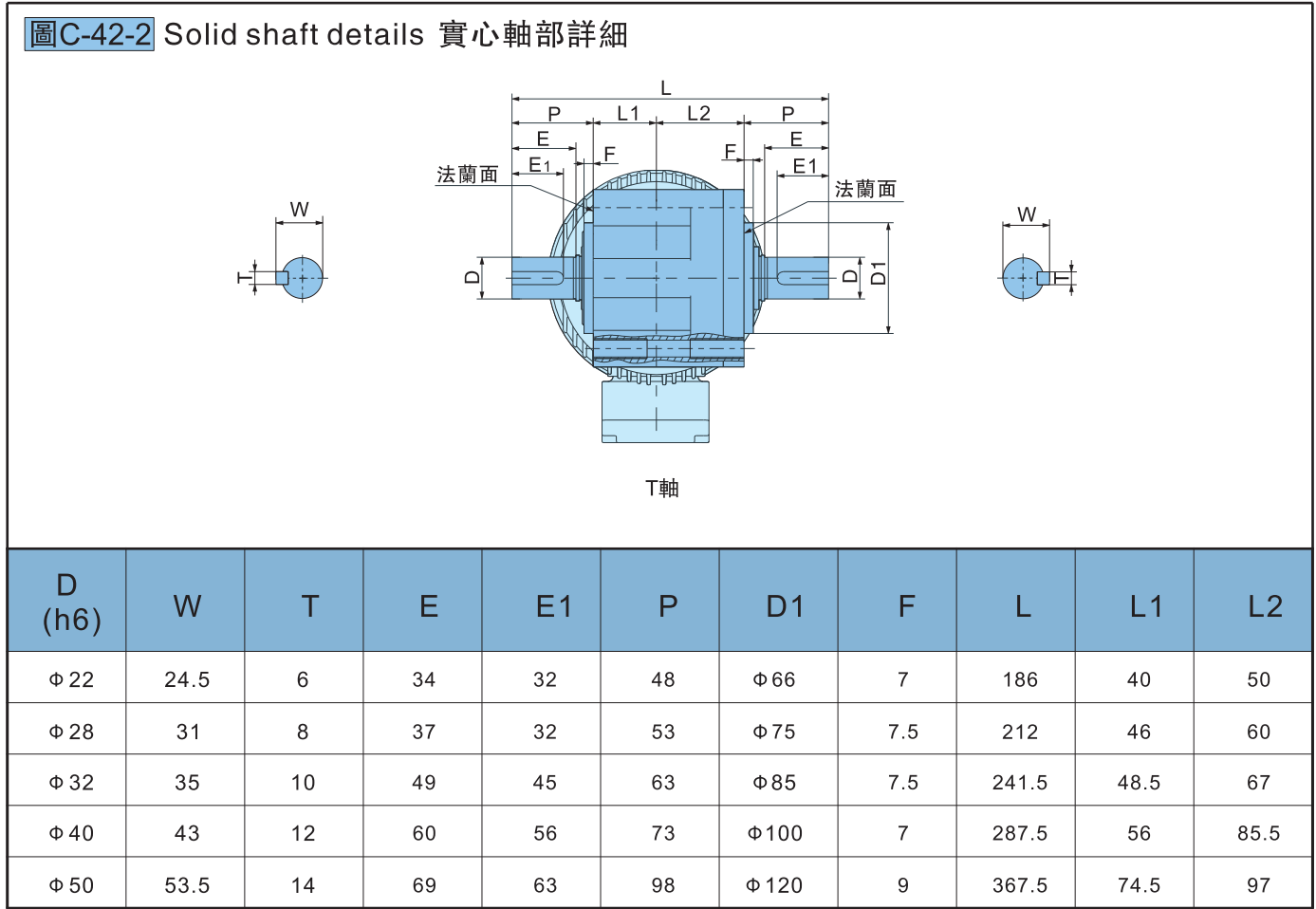
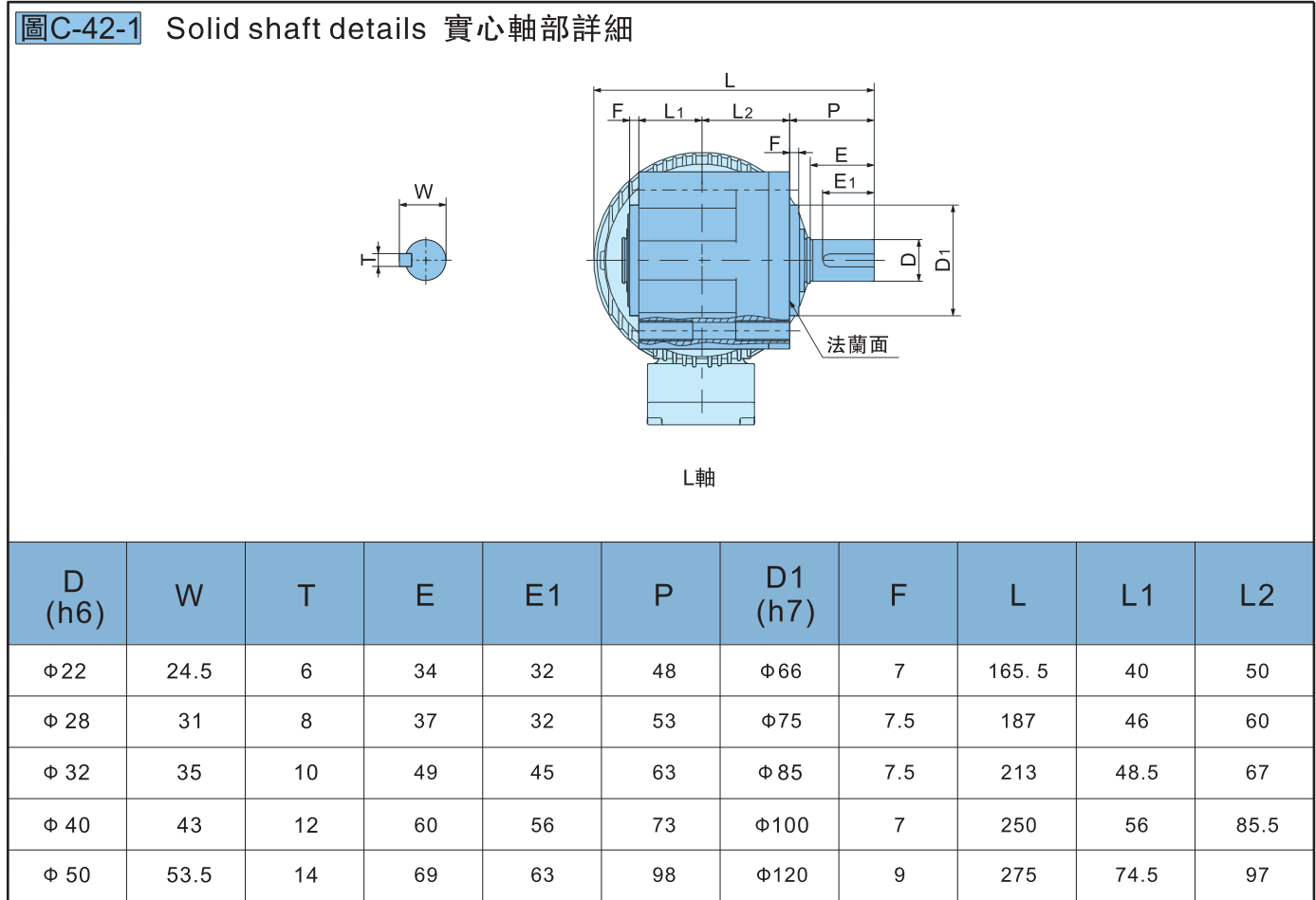
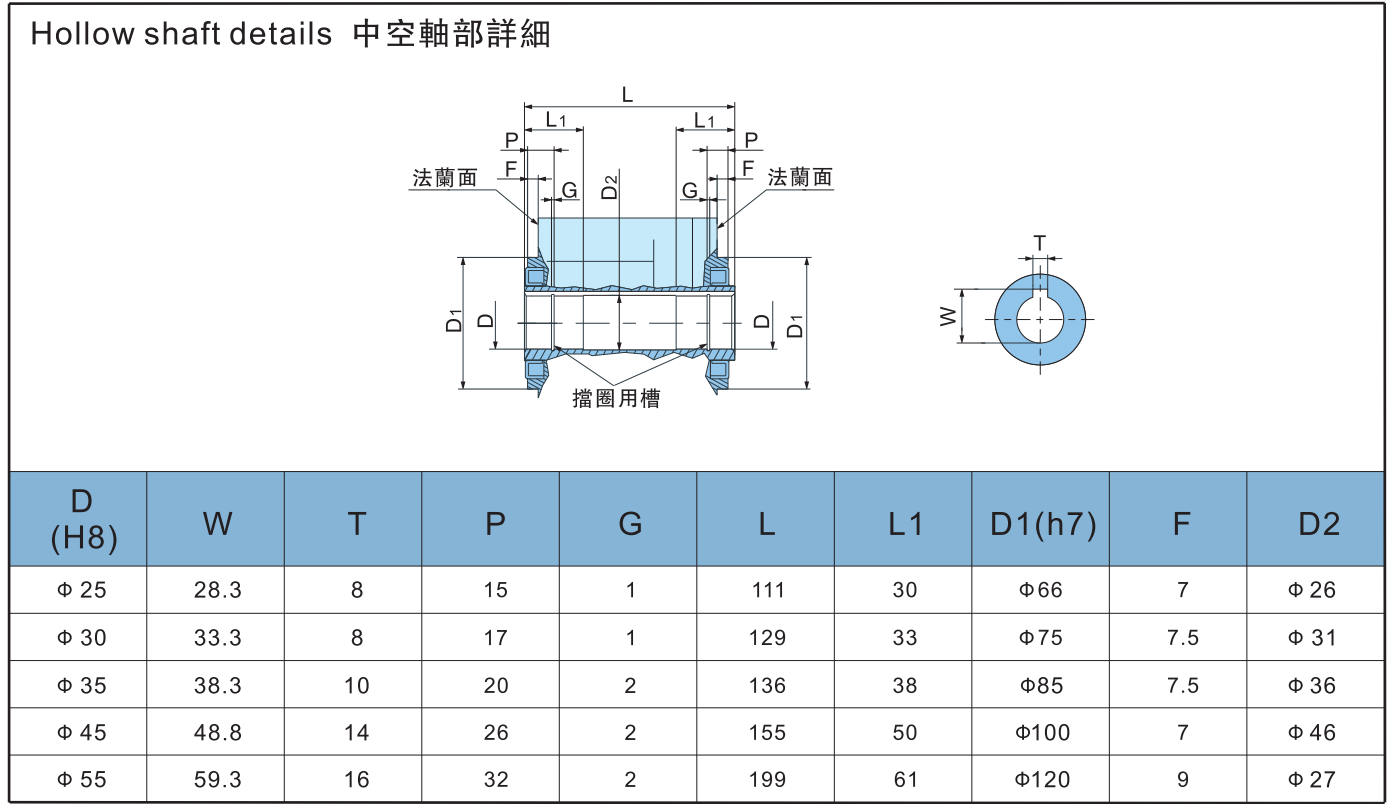
Note: See page 101 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見101頁。

圖C-41 B-F3S55 ( 16 ) NM35- ( 250~1200 ) K-X140+750WS3F



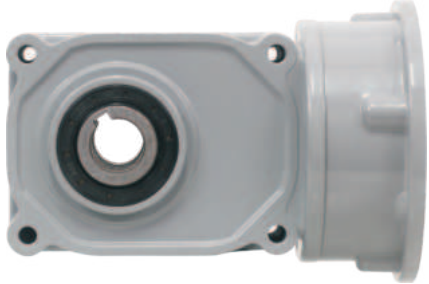


OUTPUT SHAFT DETAILS 輸出軸部詳細



IEC INPUT-TYPE REDUCER  
IEC輸入型減速器

同心中空F3S系列



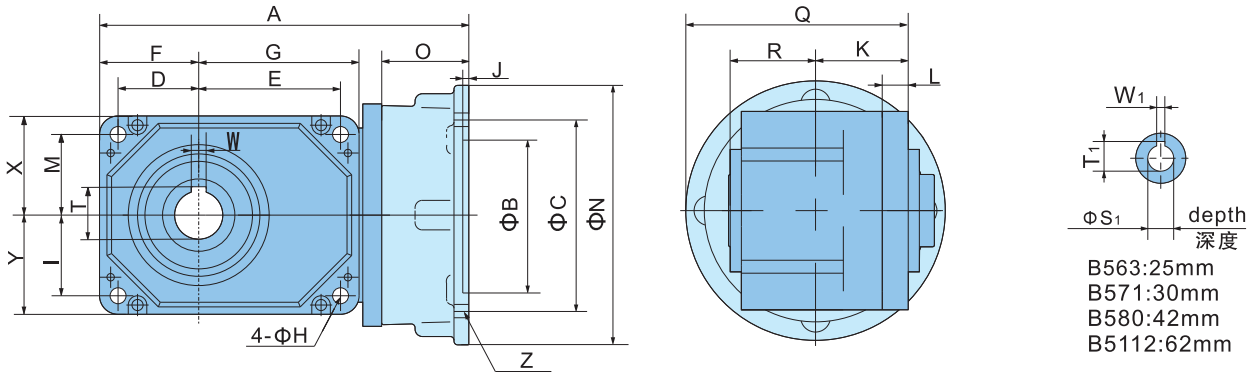
同心中實F3F系列



F3S35 ( 10 ) N- ( 5~60 ) K+B580+750W

F3F32 ( 10 ) T- ( 5~60 ) K+B580+750W

IEC INPUT-TYPE IEC輸入型減速器



INPUT BORE 輸入孔尺寸

OUTPUT SHAFT 輸出軸尺寸

| POWER<br>功率     | FLANGE<br>法蘭規格 | BORE<br>輸入孔    |                |                | SIZE(S)<br>型番 | SHAFT<br>輸出軸 |    |      | KEY<br>鍵 |
|-----------------|----------------|----------------|----------------|----------------|---------------|--------------|----|------|----------|
|                 |                | S <sub>1</sub> | W <sub>1</sub> | T <sub>1</sub> |               | ΦS           | W  | T    |          |
| 0.1kW<br>0.2kW  | B5-63          | Φ11            | 4              | 12.8           | 25            | Φ25          | 8  | 28.3 | 8*7      |
| 0.4kW           | B5-71          | Φ14            | 5              | 16.3           | 30            | Φ30          | 8  | 33.3 | 8*7      |
| 0.4kW<br>0.75kW | B5-80          | Φ19            | 6              | 21.8           | 35            | Φ35          | 10 | 38.3 | 10*8     |
| 1.5kW           | B5-90          | Φ24            | 8              | 27.3           | 35            | Φ35          | 10 | 38.3 | 10*8     |
| 2.2kW           | B5-112M        | Φ28            | 8              | 31.3           | 45            | Φ45          | 14 | 48.8 | 14*9     |
| 3.7kW           | B5-112M        | Φ28            | 8              | 31.3           | 55            | Φ55          | 16 | 59.3 | 16*10    |

| POWER<br>功率      | FLANG<br>法蘭 | RATIO<br>減速比 | SIZE(S)<br>型番 | A   | B   | C   | D    | E    | F    | G    | H   | I    | J   | K    | L    | M    | N   | O    | Q   | R    | X    | Y    | Z   |
|------------------|-------------|--------------|---------------|-----|-----|-----|------|------|------|------|-----|------|-----|------|------|------|-----|------|-----|------|------|------|-----|
| 0.1kW<br>0.2kW   | B5-63       | 35-60        | 25            | 199 | 95  | 115 | 43.5 | 76.5 | 53.5 | 86.5 | M10 | 43.5 | 3.5 | 50   | 14   | 43.5 | 140 | 47   | 120 | 40   | 53.5 | 53.5 | M8  |
|                  | B5-63       | 70-120       | 25            | 200 | 95  | 115 | 43.5 | 95.5 | 53.5 | 106  | M10 | 43.5 | 3.5 | 50   | 14   | 43.5 | 140 | 47   | 120 | 40   | 53.5 | 53.5 | M8  |
| 0.4kW            | B5-71       | 5-60         | 30            | 221 | 110 | 130 | 48   | 91   | 58   | 101  | M10 | 48   | 4   | 60   | 15.5 | 48   | 160 | 46   | 140 | 53   | 58   | 58   | M8  |
|                  | B5-71       | 70-120       | 30            | 245 | 110 | 130 | 46   | 110  | 58   | 122  | M12 | 46   | 4   | 60   | 15.5 | 46   | 160 | 46   | 140 | 53   | 58   | 58   | M8  |
| 0.55kW<br>0.75kW | B5-80       | 5-60         | 35            | 285 | 130 | 165 | 56   | 105  | 68   | 117  | M12 | 56   | 4   | 67   | 16   | 56   | 200 | 79   | 167 | 55.5 | 68   | 68   | M10 |
|                  | B5-80       | 70-120       | 35            | 320 | 130 | 165 | 54   | 140  | 68   | 154  | M16 | 54   | 4   | 67   | 16   | 54   | 200 | 79   | 167 | 55.5 | 68   | 68   | M10 |
| 2.2kW<br>3.7kW   | B5-112M     | 5-15         | 45            | 340 | 180 | 215 | 73   | 134  | 87   | 148  | M16 | 73   | 4.5 | 85.5 | 24   | 73   | 250 | 92.5 | 215 | 64   | 87   | 87   | M12 |
|                  | B5-112M     | 20-60        | 45            | 377 | 180 | 215 | 69   | 167  | 87   | 185  | M20 | 69   | 4.5 | 85.5 | 24   | 69   | 250 | 92.5 | 211 | 64   | 87   | 87   | M12 |
|                  | B5-112M     | 3-100        | 55            | 443 | 180 | 215 | 94   | 198  | 116  | 220  | M20 | 108  | 4.5 | 97   | 24   | 108  | 250 | 92.5 | 211 | 85   | 130  | 130  | M12 |

IEC INPUT-TYPE HIGH RATIO REDUCER  
IEC輸入型高速比減速器

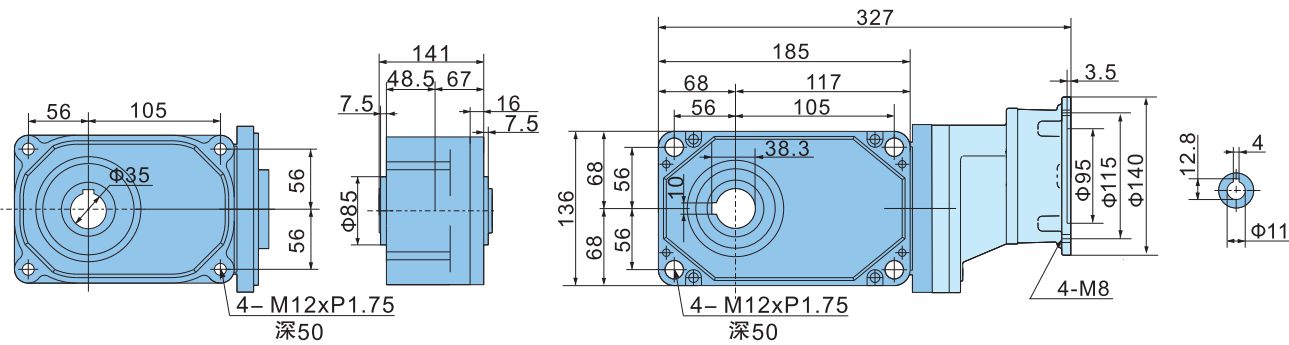


F3S35 ( 10 ) NM25-  
( 250~2400 ) K+B563+100W

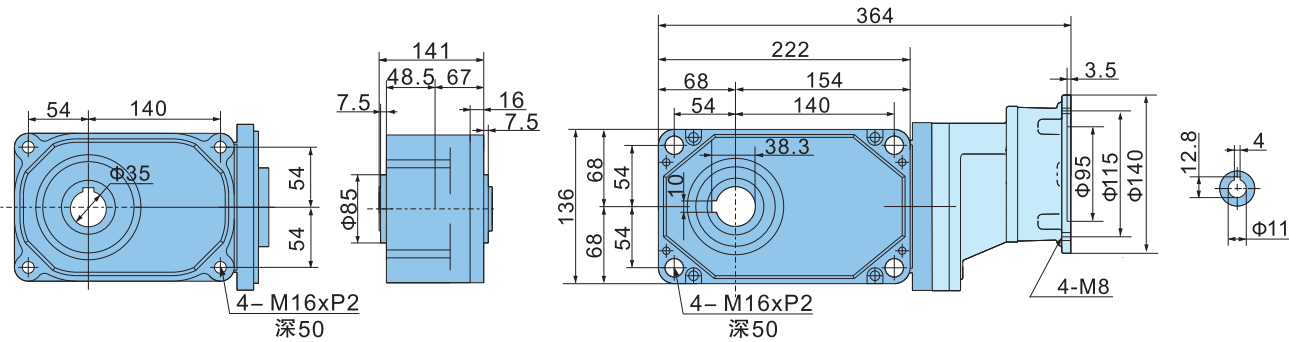


F3F32 ( 10 ) TM25-  
( 250~2400 ) K+B563+100W

A-F3S35 ( 10 ) NM25- ( 250~600 ) K+B563+100W



B-F3S35 ( 10 ) NM25- ( 600~2400 ) K+B563+100W



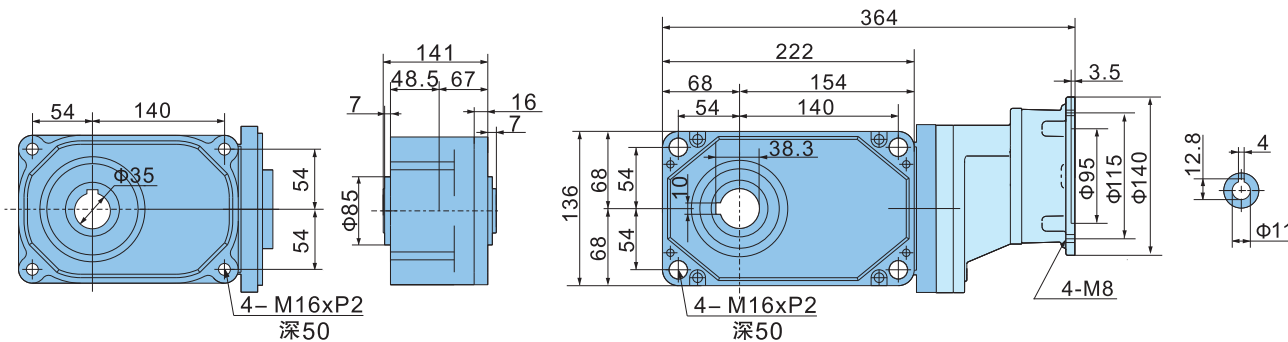
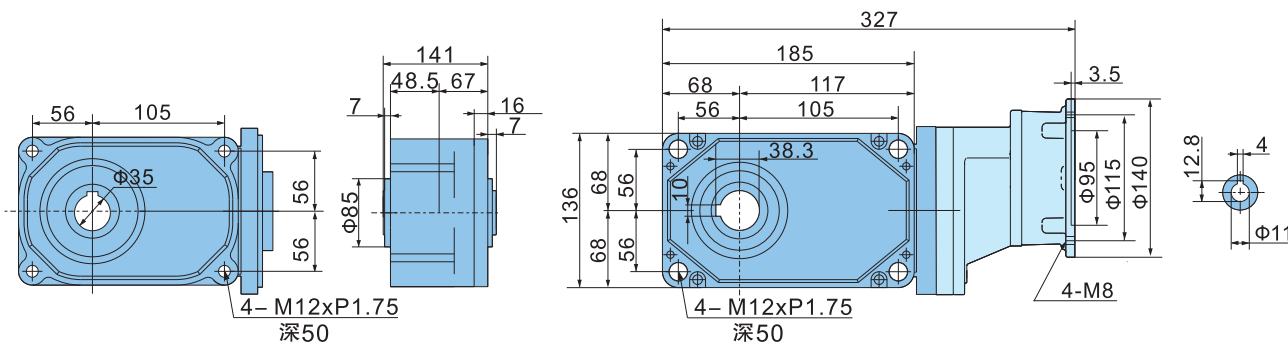
## IEC INPUT-TYPE HIGH RATIO REDUCER IEC輸入型高速比減速器



**F3S35 ( 10 ) NM25-  
( 250~1200 ) K+B563+200W**



**F3F32 ( 10 ) TM25-  
( 250~1200 ) K+B563+200W**



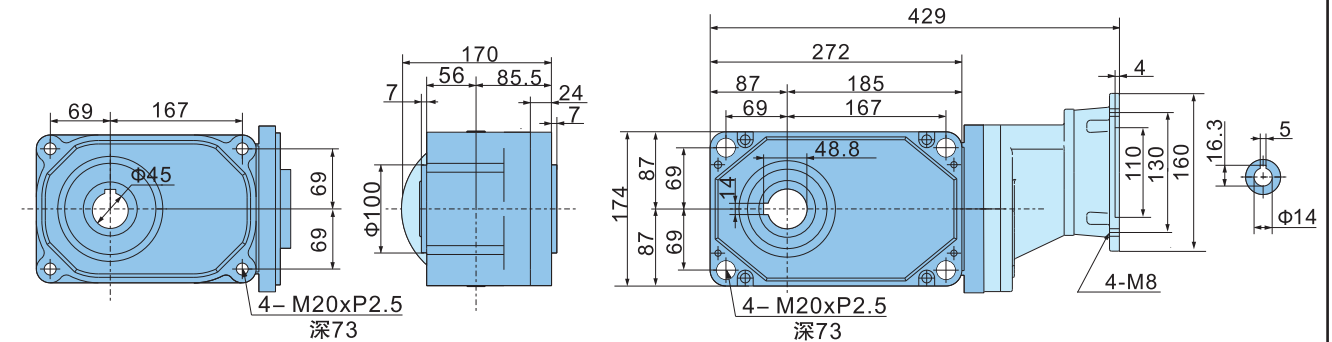
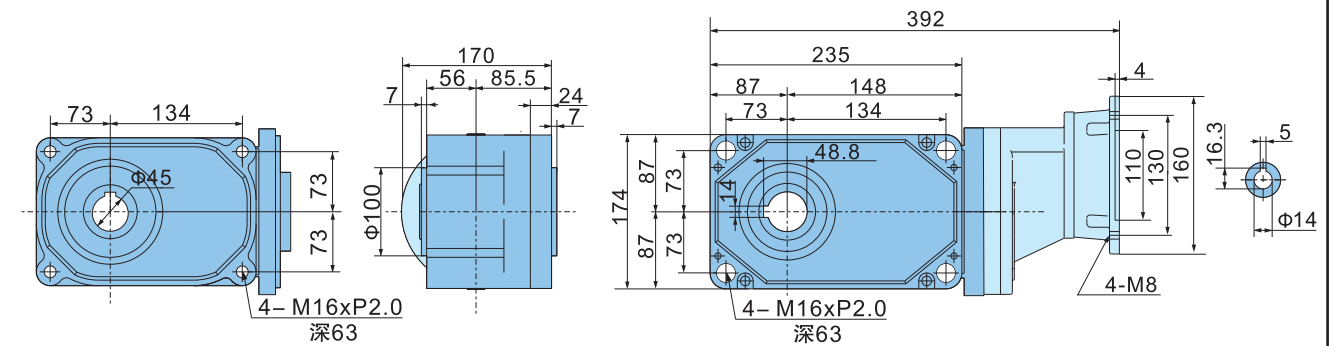
## IEC INPUT-TYPE HIGH RATIO REDUCER IEC輸入型高速比減速器



**F3S45 ( 14 ) NM30-  
( 250~1200 ) K+B571+400W**



**F3F40 ( 12 ) TM30-  
( 250~1200 ) K+B571+400W**





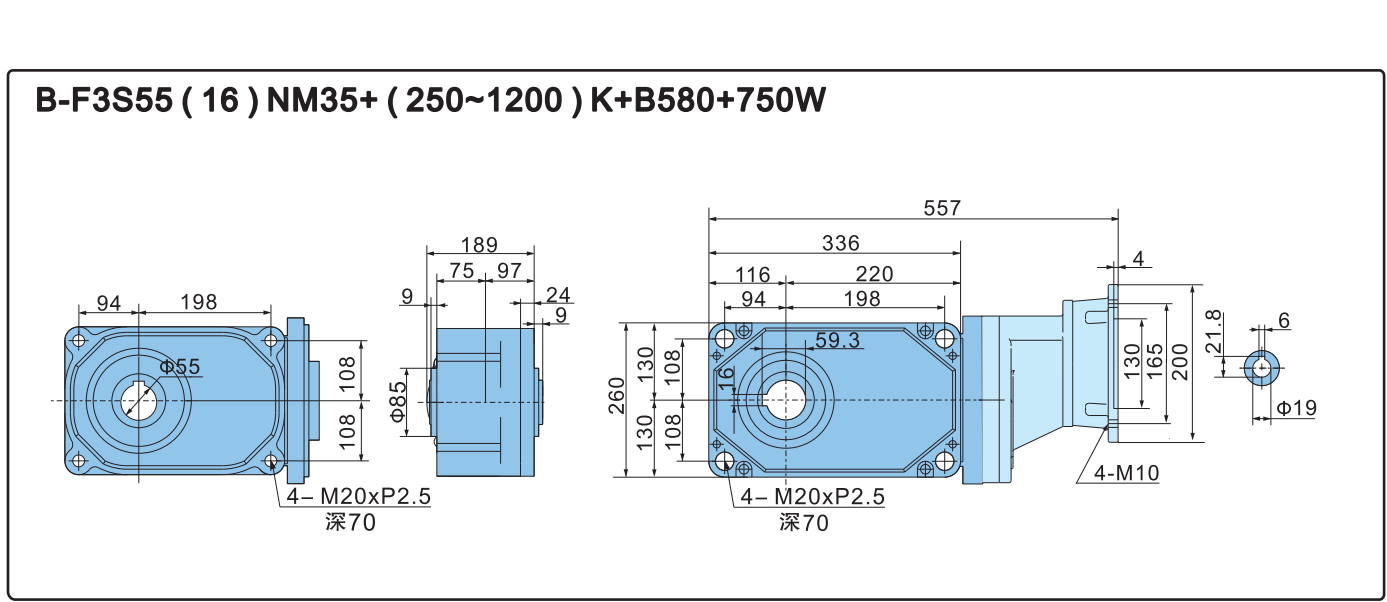
IEC INPUT-TYPE HIGH RATIO REDUCER  
IEC輸入型高速比減速器



F3S55 ( 16 ) NM35-  
( 250~1200 ) K+B580+750W



F3F50 ( 14 ) TM35-  
( 250~1200 ) K+B580+750W



SHAFT INPUT-TYPE REDUCER  
軸輸入型減速器

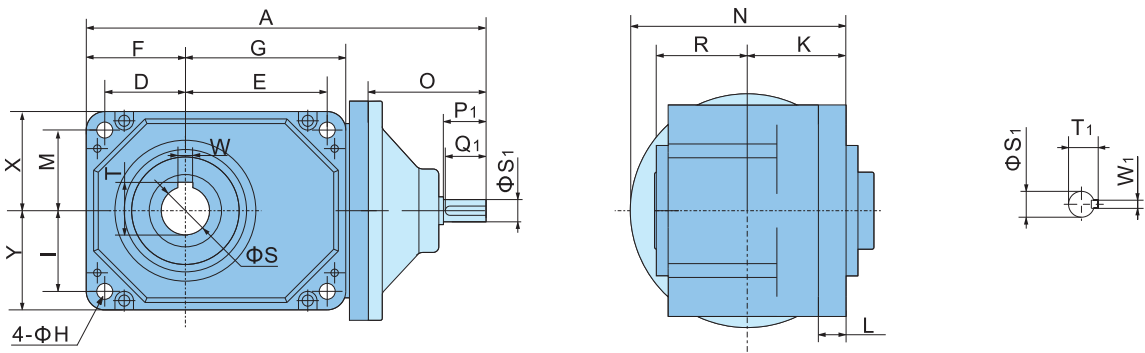


F3S35(10)N-(5~240)K+200W



F3F32(10)T-(5~240)K+200W

SHAFT INPUT-TYPE REDUCER 軸輸入型減速器



INPUT SHAFT 輸入軸尺寸

OUTPUT SHAFT 輸出軸尺寸

| POWER<br>功率                      | SHAFT<br>輸入軸   |                | KEYWAY<br>鍵槽   |                |                | KEY<br>鍵 | SIZE(S)<br>型番 | SHAFT<br>輸出軸 |    | KEYWAY<br>鍵槽 |   | KEY<br>鍵 |
|----------------------------------|----------------|----------------|----------------|----------------|----------------|----------|---------------|--------------|----|--------------|---|----------|
|                                  | S <sub>1</sub> | P <sub>1</sub> | W <sub>1</sub> | T <sub>1</sub> | Q <sub>1</sub> | SPEC     |               | ΦS           |    | W            | T | SPEC     |
| 0.1kW<br>0.2kW                   | Φ14            | 25             | 5              | 16.3           | 22             | 5*5*22   | 25            | 25           | 8  | 28.3         |   | 8*7      |
| 0.4kW                            | Φ16            | 30             | 5              | 18             | 27             | 5*5*27   | 30            | 30           | 8  | 33.3         |   | 8*7      |
| 0.55kW<br>0.75kW                 | Φ19            | 38             | 6              | 21.8           | 35             | 6*6*35   | 35            | 35           | 10 | 38.3         |   | 10*8     |
| 1.1kW<br>1.5kW<br>2.2kW<br>3.7kW | Φ24            | 48             | 8              | 27.3           | 45             | 8*7*45   | 35            | 35           | 10 | 38.3         |   | 10*8     |
|                                  | Φ28            | 53             | 8              | 31.3           | 50             | 8*7*50   | 45            | 45           | 14 | 48.8         |   | 14*9     |
|                                  |                |                |                |                |                |          | 55            | 55           | 16 | 59.3         |   | 16*10    |

| POWER<br>功率      | RATIO<br>減速比 | SIZE(S)<br>型番 | A   | D    | E    | F    | G     | H   | I    | K    | L    | M    | N   | O    | R    | X    | Y    |
|------------------|--------------|---------------|-----|------|------|------|-------|-----|------|------|------|------|-----|------|------|------|------|
| 0.1kW<br>0.2kW   | 5-60         | 25            | 216 | 43.5 | 76.5 | 53.5 | 86.5  | M10 | 43.5 | 50   | 11   | 43.5 | 110 | 63.5 | 46   | 53.5 | 53.5 |
|                  | 70-240       | 25            | 237 | 43.5 | 95.5 | 53.5 | 105.5 | M10 | 43.5 | 50   | 11   | 43.5 | 110 | 63.5 | 46   | 53.5 | 53.5 |
| 0.4kW            | 5-60         | 30            | 255 | 48   | 91   | 58   | 101   | M10 | 48   | 60   | 15.5 | 48   | 124 | 80   | 53   | 58   | 58   |
|                  | 70-240       | 30            | 280 | 46   | 110  | 58   | 122   | M12 | 46   | 60   | 15.5 | 46   | 124 | 80   | 53   | 58   | 58   |
| 0.55kW<br>0.75kW | 5-60         | 35            | 302 | 56   | 105  | 68   | 117   | M12 | 56   | 67   | 16   | 56   | 141 | 100  | 55.5 | 68   | 68   |
|                  | 70-240       | 35            | 341 | 54   | 140  | 68   | 154   | M16 | 54   | 67   | 16   | 54   | 141 | 100  | 55.5 | 68   | 68   |
| 2.2kW<br>3.7kW   | 5-60         | 45            | 373 | 73   | 134  | 87   | 148   | M16 | 73   | 85.5 | 24   | 73   | 170 | 125  | 62   | 87   | 87   |
|                  | 5-100        | 45            | 416 | 69   | 167  | 87   | 185   | M20 | 69   | 85.5 | 24   | 69   | 170 | 125  | 62   | 87   | 87   |
|                  | 5-100        | 55            | 476 | 94   | 198  | 116  | 220   | M20 | 108  | 97   | 24   | 108  | 189 | 125  | 85   | 130  | 130  |

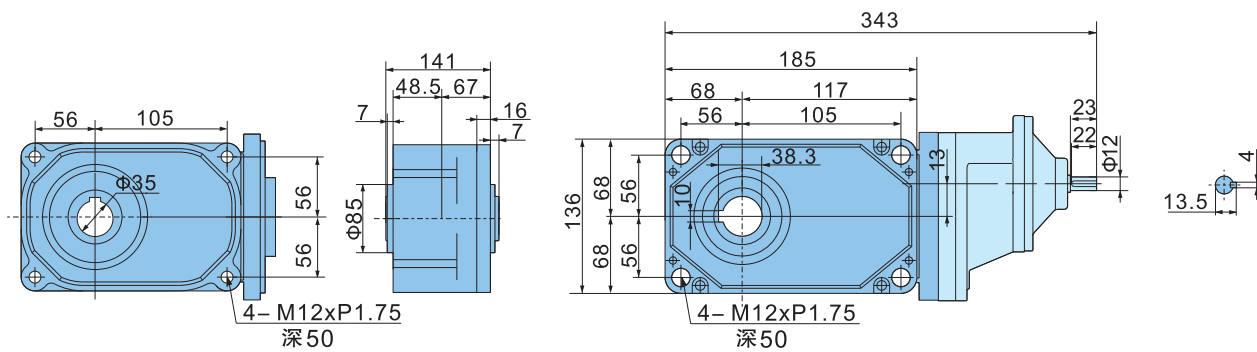
## SHAFT INPUT-TYPE HIGH RATIO REDUCER 軸輸入型高速比減速器



**F3S35 ( 10 ) NM25-  
( 250~2400 ) K+100W**



**F3F32 ( 10 ) TM25-  
( 250~2400 ) K+100W**



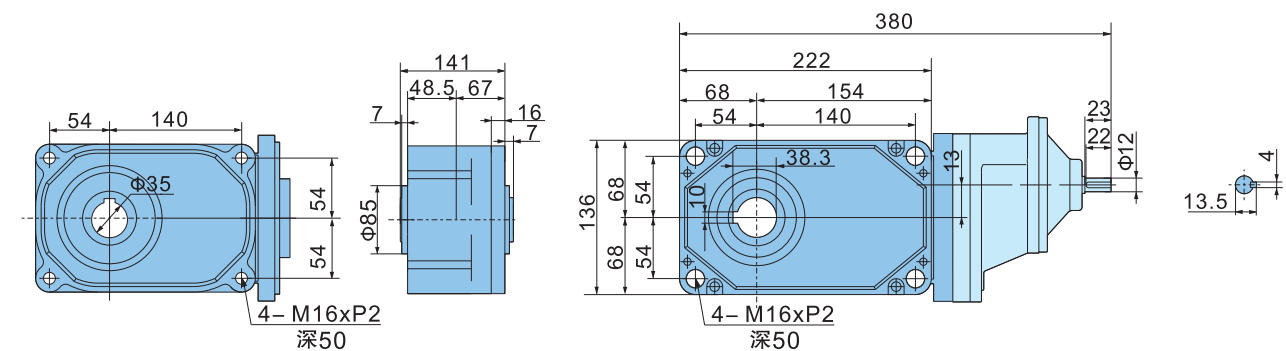
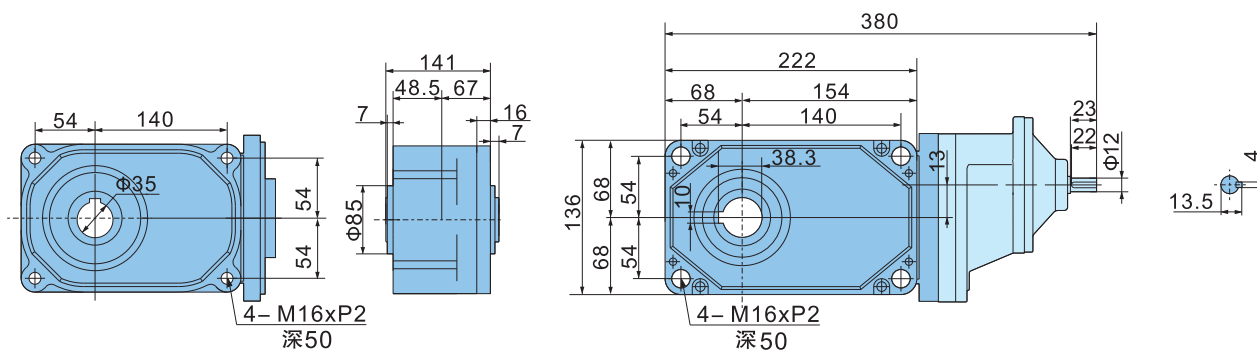
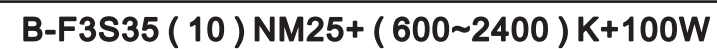
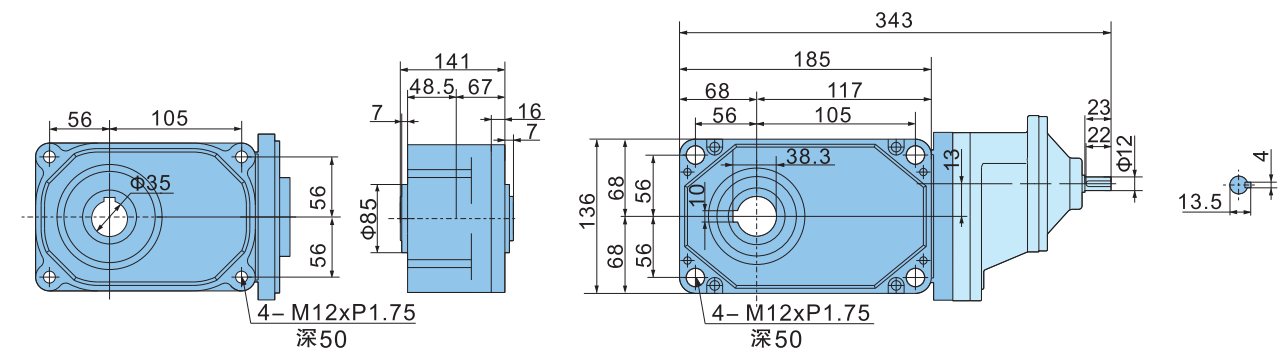
## SHAFT INPUT-TYPE HIGH RATIO REDUCER 軸輸入型高速比減速器



**F3S35 ( 10 ) NM25-  
( 250~1200 ) K+200W**



**F3F30 ( 10 ) TM25-  
( 250~1200 ) K+200W**



**SHAFT INPUT-TYPE HIGH RATIO REDUCER**  
軸輸入型高速比減速器

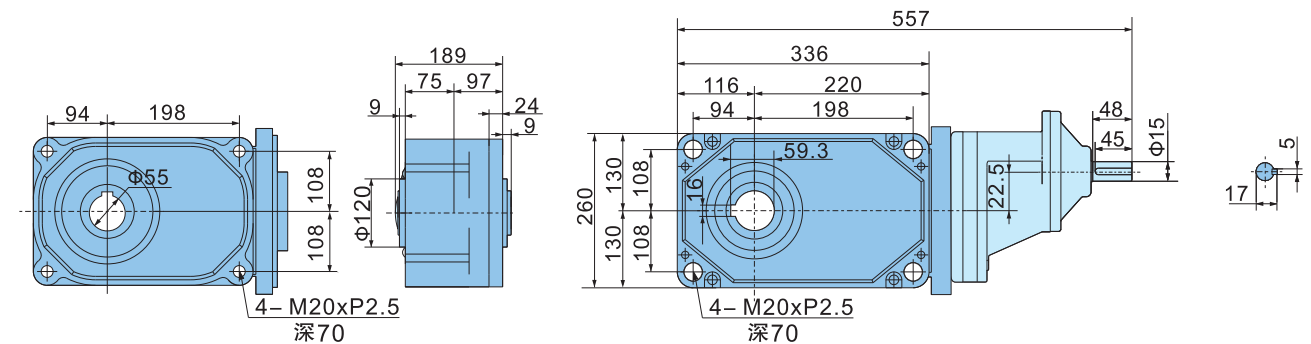


**F3S45 ( 14 ) NM30-  
( 250~1200 ) K+400W**

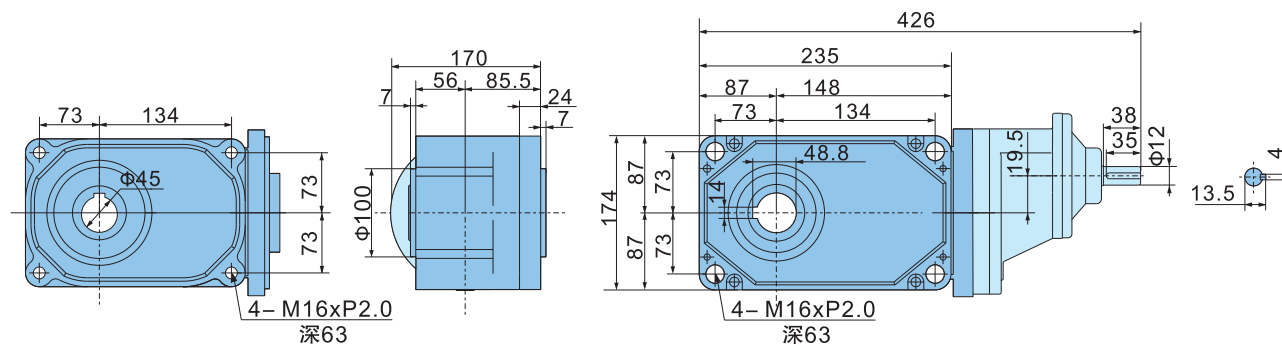


**F3F40 ( 12 ) TM30-  
( 250~1200 ) K+400W**

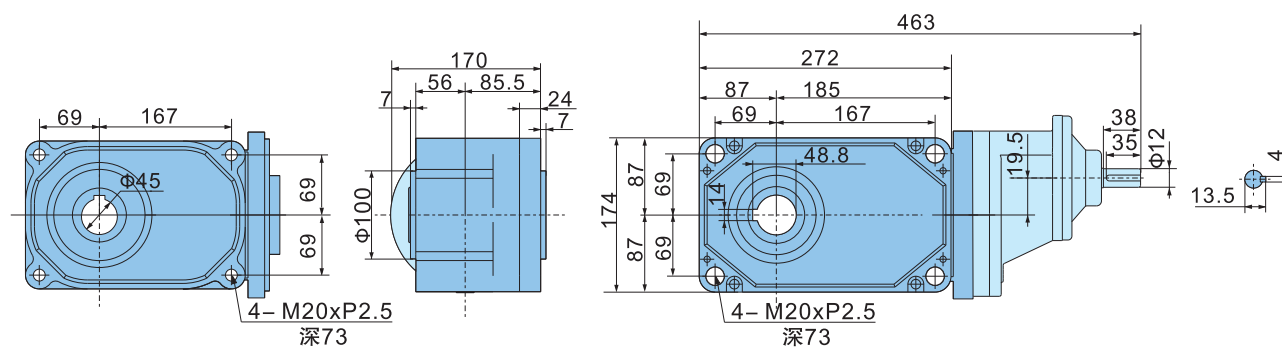
**B-F3S55 ( 16 ) NM35+ ( 250~1200 ) K+750W**



**A-F3S45 ( 14 ) NM30- ( 250~600 ) K+400W**



**B-F3S45 ( 14 ) NM30- ( 600~1200 ) K+400W**





# F Series

## HYPOID GEAR REDUCTION MOTOR

F系列準雙曲面齒輪減速電機

長方偏心法蘭型 0.1kW~3.7kW

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特性表、外形圖



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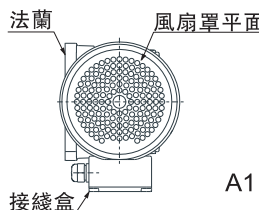
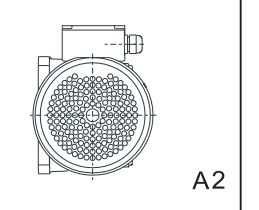
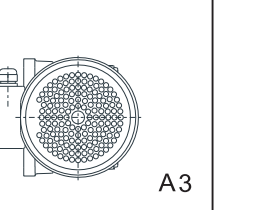
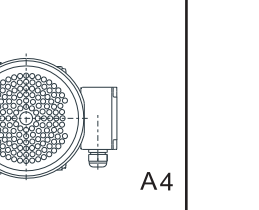
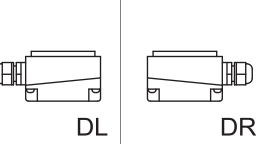
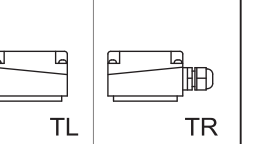
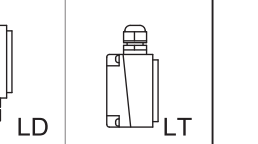
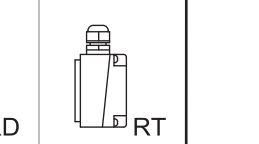
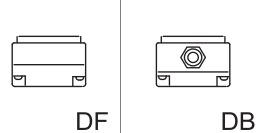
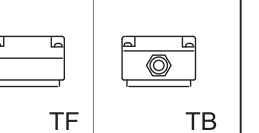
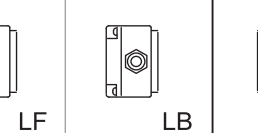
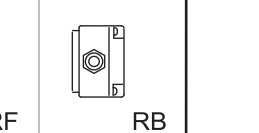
|    |   |    |   |          |   |     |    |   |      |   |     |   |   |    |    |   |      |   |
|----|---|----|---|----------|---|-----|----|---|------|---|-----|---|---|----|----|---|------|---|
| A  | - | F  | S | 35 ( 8 ) | N | M25 | XK | - | X101 | + | 200 | W | - | S3 | F  | - | X101 | - |
| 0  |   | 1  | 2 | 3        | 4 | 5   | 6  |   | 7    |   | 8   | 9 |   | 10 | 11 |   | 12   |   |
| A1 |   | LD |   | ( G )    | - | IP  |    |   |      |   |     |   |   |    |    |   |      |   |
| 13 |   | 14 |   | 15       |   | 16  |    |   |      |   |     |   |   |    |    |   |      |   |

|    |                                                  |                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0  | Gear case type 齒輪箱類型                             | A: Type A    B: Type B    A: A型箱    B: B型箱                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1  | Type code 機型系列代號                                 | F: F Series hypoid reduction motor    F: F系列中型準雙曲面齒輪減速機                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2  | Output shaft type 輸出軸類型                          | S: Hollow shaft    S: 空心軸                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                  | F: Solid shaft    F: 實心軸                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3  | Output shaft DIA 輸出軸孔徑                           | 25 ( 8 ) : Φ25 ( 鍵槽尺寸8 )    30 ( 8 ) : Φ30 ( 8 )    35 ( 10 ) : Φ35 ( 10 )<br>45 ( 14 ) : Φ45 ( 14 )    55 ( 16 ) : Φ55 ( 16 )                                                                                                                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    | Output shaft DIA 輸出軸軸徑                           | 22 ( 6 ) : Φ22 ( 鍵槽尺寸6 )    28 ( 8 ) : Φ28 ( 8 )    32 ( 10 ) : Φ32 ( 10 )<br>45 ( 12 ) : Φ45 ( 12 )    50 ( 14 ) : Φ50 ( 14 )                                                                                                                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4  | Axis configuration 軸配置<br>( 僅限FF型號, FS型號為"N" )   | <div>Viewed from input shaft output shaft is on the left<br/>L:從輸入軸一側觀察,輸出軸位于左側</div> <div>Viewed from input shaft output shaft is on both sides<br/>T:從輸入軸一側觀察,輸出軸位于兩側</div> <div>Viewed from input shaft output shaft is on the right<br/>R:從輸入軸一側觀察,輸出軸位于右側</div> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5  | Middle gear head 中間箱                             | M25 ( 140轉110 )    M30 ( 160轉120 )    M35 ( 175轉140 )                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6  | Gear ratio 減速比                                   | 5: 1:5    7.5: 1:7.5    10: 1:10    20: 1:20    30: 1:30    x: 1:x                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7  | Flange type 法蘭形式                                 | x101 ( x110、x120、140、160、175 )B5(B5-63、B5-71、B5-80、B5-90、B5-112M)                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                  | ( Not specified for shaft input 未注為軸輸入型 )                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8  | Rated power 額定功率                                 | 100: 100W    200: 200W    400: 400W    750: 750W    x: xW                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9  | Brake unit 剎車器形式                                 | W: No brake motor 非剎車電機    B: Brake motor 剎車電機<br>YB: Brake with manual release 帶手動釋放剎車                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Rated voltage 額定電壓                               | C1: 1-Phase 單相 110V    C2: 1-Phase 單相 220V<br>S2: 3-Phase 三相 220V    S3: 3-Phase 三相 380V<br>S4: 3-Phase 三相 440V    S2/3: 3-Phase 三相 220/380V                                                                                                                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                  |                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | Code of fan 風扇代號                                 | F: Common 普通風扇<br>S: Forced 強制風扇<br>※No make means motor without fan 無風扇不標                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | Flange type 法蘭形式                                 | x101 ( x110、x120、140、160、175 )                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | Terminal box direction form output shaft 從軸端看盒位置 | A1: Down direction 下方向<br>A2: Top direction 上方向<br>A3: Left direction 左方向<br>A4: Right direction 右方向<br>Remark備注: A1direction is standardA1 是標配方向                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                  |                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | lead wire direction form output shaft 從軸端看出線方向   | L: Left direction 向左方向    R: Right direction 向右方向<br>T: Top direction 向上方向    D: Down direction 向下方向<br>F: Forward direction 向前方向    B: Back 向后方向                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                  |                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | Color 顏色                                         | M:Medium gray 中灰色    G: Green 綠色<br>R: Red 紅色    W: White 灰白色                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                  |                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | Protection Class 防護等級                            | 20    54                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

As technical data for these machines may be advantaged , please contact us or visit the company website. Not allow for publish without formal approved.  
因技術改進, 實際值可能與上述參數有差異, 恕不另行通知, 若需具體參數, 敬請諮詢本公司或瀏覽網站。

DESCRIPTION OF MODEL 型號說明

Terminal box direction, lead wire direction and ventilation installation diagram 接線盒位置和引出線方向示意圖

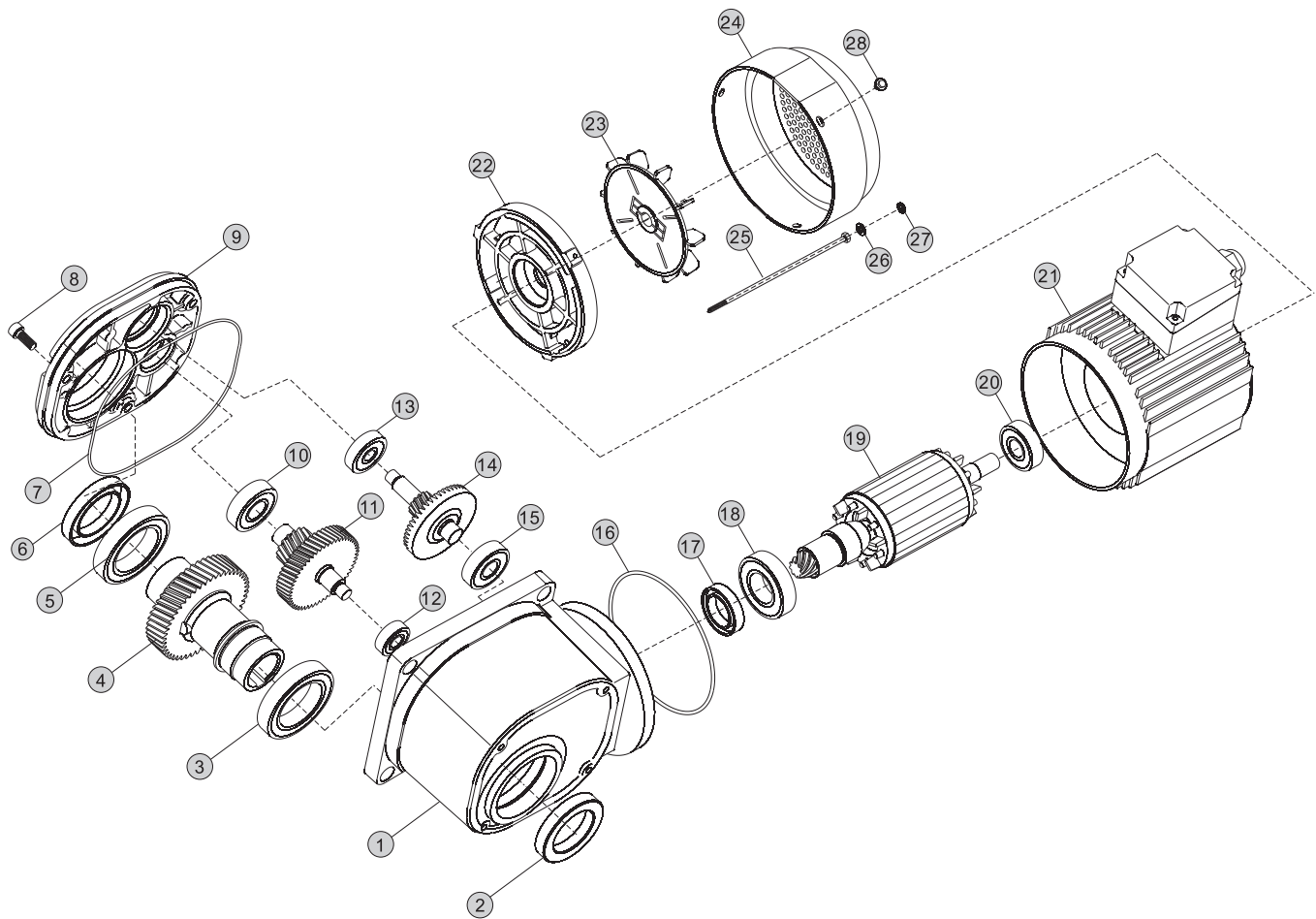
|                                                                         |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
| View the terminal box position from the input shaft end.<br>從輸入軸端看接線盒方位 |  |  |  |  |  |  |  |  |
|                                                                         | A1                                                                                |  | A2                                                                                |  | A3                                                                                 |  | A4                                                                                  |  |
| Lead wire direction from output shaft<br>從軸端看引出線方向                      |  |  |  |  |  |  |  |  |
|                                                                         | DL DR                                                                             |  | TL TR                                                                             |  | LD LT                                                                              |  | RD RT                                                                               |  |
|                                                                         |  |  |  |  |  |  |  |  |
|                                                                         | DF DB                                                                             |  | TF TB                                                                             |  | LF LB                                                                              |  | RF RB                                                                               |  |

Standard Model Composition Table 標準機型構成表

| Model<br>型號               | Rated Power<br>電機功率 | Hollow Dim<br>孔徑(D) | Shaft Dim<br>軸徑(d) | L<br>T<br>R | Gear Case<br>齒輪箱 | Ratio<br>減速比                                             |
|---------------------------|---------------------|---------------------|--------------------|-------------|------------------|----------------------------------------------------------|
| Reduction<br>motor<br>減速機 | 0.1kW               | Φ25D                | Φ22d               | L<br>T<br>R | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                           |                     |                     |                    |             |                  | 1/80 1/100 1/120 1/160 1/200 1/240                       |
|                           | 0.2kW               | Φ25D                | Φ22d               | L<br>T<br>R | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                           |                     |                     |                    |             |                  | 1/80 1/100 1/120 1/160 1/200 1/240                       |
|                           | 0.4kW               | Φ30D                | Φ28d               | L<br>T<br>R | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                           |                     |                     |                    |             |                  | 1/80 1/100 1/120 1/160 1/200 1/240                       |
|                           | 0.75kW              | Φ35D                | Φ32d               | L<br>T<br>R | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                           |                     |                     |                    |             |                  | 1/80 1/100 1/120 1/160 1/200 1/240                       |
|                           | 1.1kW               | Φ45D                | Φ40d               | L<br>T<br>R | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                           |                     |                     |                    |             |                  | 1/80 1/100 1/120 1/160 1/200 1/240                       |
|                           | 1.5kW               | Φ55D                | Φ50d               | L<br>T<br>R | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                           |                     |                     |                    |             |                  | 1/80 1/100 1/120 1/160 1/200 1/240                       |
|                           | 2.2kW               | Φ55D                | Φ50d               | L<br>T<br>R | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                           |                     |                     |                    |             |                  | 1/80 1/100 1/120 1/160 1/200 1/240                       |
|                           | 3.7kW               | Φ55D                | Φ50d               | L<br>T<br>R | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30                |
|                           |                     |                     |                    |             |                  | 1/40 1/50 1/60 1/80 1/100 1/120                          |



PRODUCT STRUCTURE DIAGRAM 產品結構圖



Detail parts list 零件清單

| No | Denomination<br>零件名稱   | No | Denomination<br>零件名稱 | No | Denomination<br>零件名稱  |
|----|------------------------|----|----------------------|----|-----------------------|
| 1  | Housing 本體             | 11 | 2nd main gear 二軸組件   | 21 | Stator 定子總成           |
| 2  | Oil seal 油封            | 12 | Ball bearing 軸承      | 22 | Rear cover 後端蓋        |
| 3  | Ball bearing 軸承        | 13 | Ball bearing 軸承      | 23 | Fan 風葉                |
| 4  | Output main gear 輸出輪組件 | 14 | 1st main gear 一輪組件   | 24 | Fan cover 風罩          |
| 5  | Ball bearing 軸承        | 15 | Ball bearing 軸承      | 25 | Long bolt-motor 電機長絲杆 |
| 6  | Oil seal 油封            | 16 | O-ring O型密封圈         | 26 | Plain washer 平墊       |
| 7  | O-ring O型密封圈           | 17 | Oil seal 油封          | 27 | Spring washer 彈墊      |
| 8  | Inner hex.screw 內六角螺釘  | 18 | Ball bearing 軸承      | 28 | Cross screw 十字螺釘      |
| 9  | Bearing plate 軸承板      | 19 | Rotor 轉子             |    |                       |
| 10 | Ball bearing 軸承        | 20 | Ball bearing 軸承      |    |                       |

STANDARD SPECIFICATIONS 標準規格

|                     |                                |                                                                     |                   |
|---------------------|--------------------------------|---------------------------------------------------------------------|-------------------|
| Motor<br>電機         | Phase<br>相數                    | Single phase 單相                                                     | Three phases 三相   |
|                     | Power<br>功率                    | 0.1, 0.2, 0.4, 0.75, 1.1, 1.5, 2.2, 3.7kW                           |                   |
|                     |                                | No brake 、with brake 無制動器、附帶制動器                                     |                   |
|                     | Rated power<br>電壓              | 220v/50Hz                                                           | 380v/50Hz         |
|                     | Poles of the motor<br>電機極數     | 4                                                                   |                   |
|                     | Protection class<br>防護等級       | IP54                                                                |                   |
|                     | Cooling-down method<br>冷卻方式    | Self-control type 自控型 (IC411)                                       |                   |
|                     | Starting duty<br>啟動方式          | Running capacitor 運轉電容                                              | Direct start 全壓啟動 |
|                     | Time duty<br>工作制式              | Continuous running 連續運轉                                             |                   |
|                     | Insucation class<br>絕緣         | Option of B class or Fclass B級或F級                                   |                   |
| Reducer<br>減速器      | Action<br>制動器方式                | Non-excitation action type、DC electromagnetic brake 無勵磁動作型、直流電磁制動器  |                   |
|                     | Ratio<br>減速比                   | 1/5~1/240                                                           |                   |
|                     | Lubricating<br>潤滑方式            | Lubricant 封閉 潤滑油                                                    |                   |
| Environment<br>適用環境 | Shaft end key way<br>軸端鍵槽部     | GB/T1095-2003: 附帶輸出軸鍵 ( 鍵為普通級別 )                                    |                   |
|                     | Installation site<br>安裝場所      | Less dust .nowater drench place 室內塵埃較少、無水淋的場所                       |                   |
|                     | Temperature<br>溫度              | -10℃~+40℃                                                           |                   |
|                     | Humidity<br>濕度                 | Below 85% 85%以下 ( 無結霜 )                                             |                   |
|                     | Environment<br>環境              | Non-corrosive gas、explosive gas、water vapor etc 無腐蝕性氣體、爆炸性氣體，水蒸氣等   |                   |
|                     | Installation direction<br>安裝方向 | No horizontal、vertical、tilt mounting restrictions 無水平、垂直、傾斜等安裝角度的限制 |                   |
|                     | Color<br>顏色                    | Medium中灰色 Green綠色 Red紅色 White白灰色                                    |                   |

motor characteristic 電機特性

| Phase<br>相數                                                     | Power<br>功率 | Poles of<br>the motor<br>電機<br>極數 | Rated<br>Frequency<br>頻率 ( Hz ) | Rated<br>Voltage<br>電壓 ( V ) | Rated power<br>額定電流值 ( A ) | Rated power<br>額定轉速 ( rpm ) | 20℃時，直流側制動器<br>電流值 ( A,參考值 ) |
|-----------------------------------------------------------------|-------------|-----------------------------------|---------------------------------|------------------------------|----------------------------|-----------------------------|------------------------------|
| Singe<br>phase<br>/<br>Three<br>phases<br>單<br>相<br>/<br>三<br>相 | 0.1kW       | 4                                 | 50                              | 220<br>( 380 )               | 0.52<br>( 0.31 )           | 1400                        | 0.19                         |
|                                                                 | 0.2kW       |                                   |                                 |                              | 0.92<br>( 0.56 )           |                             | 0.19                         |
|                                                                 | 0.4kW       |                                   |                                 |                              | 1.8<br>( 1.0 )             |                             | 0.19                         |
|                                                                 | 0.75kW      |                                   |                                 |                              | 3.2<br>( 1.8 )             |                             | 0.28                         |
|                                                                 | 1.1kW       |                                   |                                 |                              | 4.4<br>( 2.5 )             |                             | 0.28                         |
|                                                                 | 1.5kW       |                                   |                                 |                              | 5.6<br>( 3.3 )             |                             | 0.28                         |
|                                                                 | 2.2kW       |                                   |                                 |                              | 8.0<br>( 4.6 )             |                             | 0.28                         |
|                                                                 | 3.7kW       |                                   |                                 |                              | 10.8<br>( 7.5 )            |                             | 0.35                         |

注 ) 額定電流值 ( ) 內為380V時的值。  
As technical data for these machines may be advantaged , please contact us or visit the company website. Not allow for publish without formal approved.



0.1kW

1-PHASE/3-PHASE  
單相/三相



A-FS25 ( 8 ) N- ( 5~60 ) K-X101+100WS3F

B-FS25 ( 8 ) N- ( 70~240 ) K-X101+100WS3F

A-FF22 ( 6 ) T- ( 5~60 ) K-X101+100WS3F

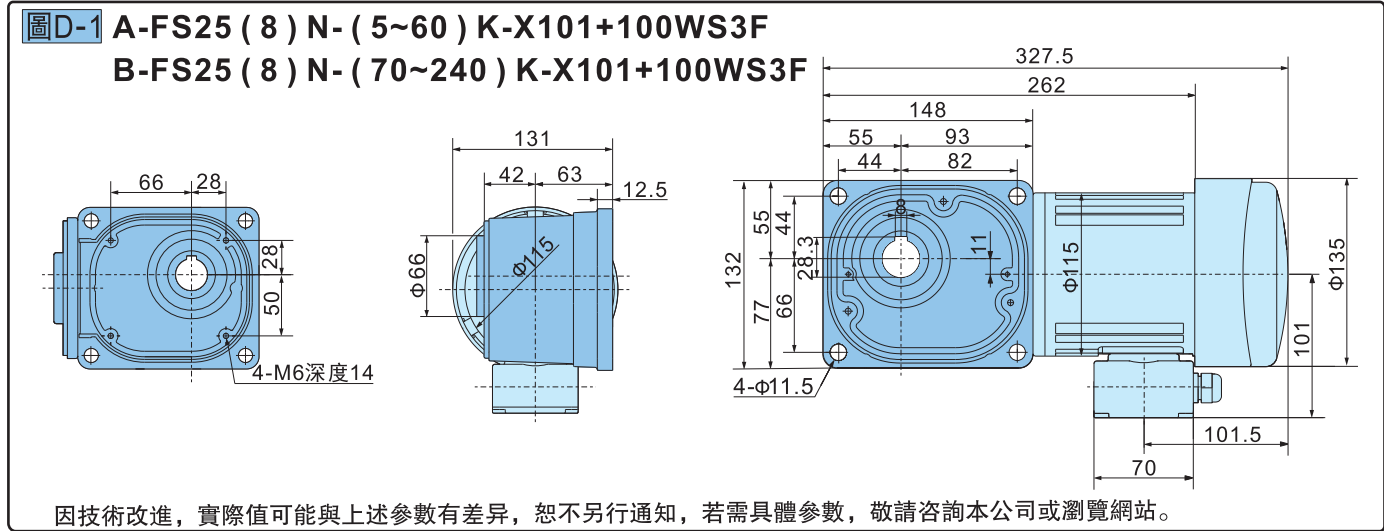
B-FF22 ( 6 ) T- ( 70~240 ) K-X101+100WS3F

| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.1kW       | 380                       | 50                           | 0.31                         | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 0.52                         | 1400                        |                          |                          |

| Power<br>功率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |     | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |      | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction<br>ratio<br>實際減速比<br>( 分數 ) | Speed<br>轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|-------------|-------------------------------------------------|-----|------------------------------------------------|------|---------------------|--------------|---------------------------------------|------------------|---------------------------|---------|----------------------------|-----|--------------------------------|-----|
|             |                                                 |     |                                                |      |                     |              |                                       |                  | N · m                     | kgf · m | N                          | kgf | N                              | kgf |
|             |                                                 |     |                                                |      |                     |              |                                       | 50Hz             | 50Hz                      | 50Hz    | N                          | kgf | N                              | kgf |
| 0.1kW       | Φ25D<br>(8)                                     | D-1 | Φ22d<br>(6)                                    | D-22 | A                   | 1/5          | 1/5                                   | 300              | 2.7                       | 0.27    | 1230                       | 125 | 307                            | 31  |
|             |                                                 |     |                                                |      |                     | 1/7.5        | 2/15                                  | 200              | 4                         | 0.41    | 1370                       | 140 | 342                            | 35  |
|             |                                                 |     |                                                |      |                     | 1/10         | 1/10                                  | 150              | 5.2                       | 0.53    | 1520                       | 155 | 380                            | 39  |
|             |                                                 |     |                                                |      |                     | 1/12.5       | 19/230                                | 120              | 6.5                       | 0.66    | 1620                       | 165 | 405                            | 41  |
|             |                                                 |     |                                                |      |                     | 1/15         | 16/245                                | 100              | 7.7                       | 0.79    | 1720                       | 175 | 429                            | 44  |
|             |                                                 |     |                                                |      |                     | 1/20         | 1/20                                  | 75               | 11                        | 1.1     | 1860                       | 190 | 466                            | 48  |
|             |                                                 |     |                                                |      |                     | 1/25         | 29/720                                | 60               | 13                        | 1.3     | 2010                       | 205 | 502                            | 51  |
|             |                                                 |     |                                                |      |                     | 1/30         | 1/30                                  | 50               | 16                        | 1.6     | 2110                       | 215 | 527                            | 54  |
|             |                                                 |     |                                                |      |                     | 1/40         | 1/40                                  | 37.5             | 21                        | 2.1     | 2300                       | 235 | 576                            | 59  |
|             |                                                 |     |                                                |      |                     | 1/50         | 11/540                                | 30               | 25                        | 2.6     | 2450                       | 250 | 613                            | 63  |
|             |                                                 |     |                                                |      | 1/60                | 9/550        | 25                                    | 31               | 3.2                       | 2550    | 260                        | 637 | 65                             |     |
|             |                                                 |     |                                                |      | B                   | 1/80         | 1/80                                  | 18.8             | 39                        | 4       | 2550                       | 260 | 637                            | 65  |
|             |                                                 |     |                                                |      |                     | 1/100        | 19/1840                               | 15               | 49                        | 5       | 2550                       | 260 | 637                            | 65  |
|             |                                                 |     |                                                |      |                     | 1/120        | 2/245                                 | 12.5             | 59                        | 6       | 2550                       | 260 | 637                            | 65  |
|             |                                                 |     |                                                |      |                     | 1/160        | 1/160                                 | 9.4              | 78                        | 8       | 2550                       | 260 | 637                            | 65  |
|             |                                                 |     |                                                |      |                     | 1/200        | 11/2160                               | 7.5              | 98                        | 10      | 2550                       | 260 | 637                            | 65  |
|             |                                                 |     |                                                |      |                     | 1/240        | 9/2200                                | 6.3              | 101                       | 10.3    | 2550                       | 260 | 637                            | 65  |
|             |                                                 |     |                                                |      |                     |              |                                       |                  |                           |         |                            |     |                                |     |
|             |                                                 |     |                                                |      |                     |              |                                       |                  |                           |         |                            |     |                                |     |

Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm. 2.Output speed = motor/reduction ration. 3.※ Marked as torque limited.

( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。 3.※標記為轉矩力受限機型。



0.2kW

1-PHASE/3-PHASE  
單相/三相



A-FS25 ( 8 ) N- ( 5~60 ) K-X101+200WS3F

B-FS25 ( 8 ) N- ( 70~240 ) K-X101+200WS3F

A-FF22 ( 6 ) T- ( 5~60 ) K-X101+200WS3F

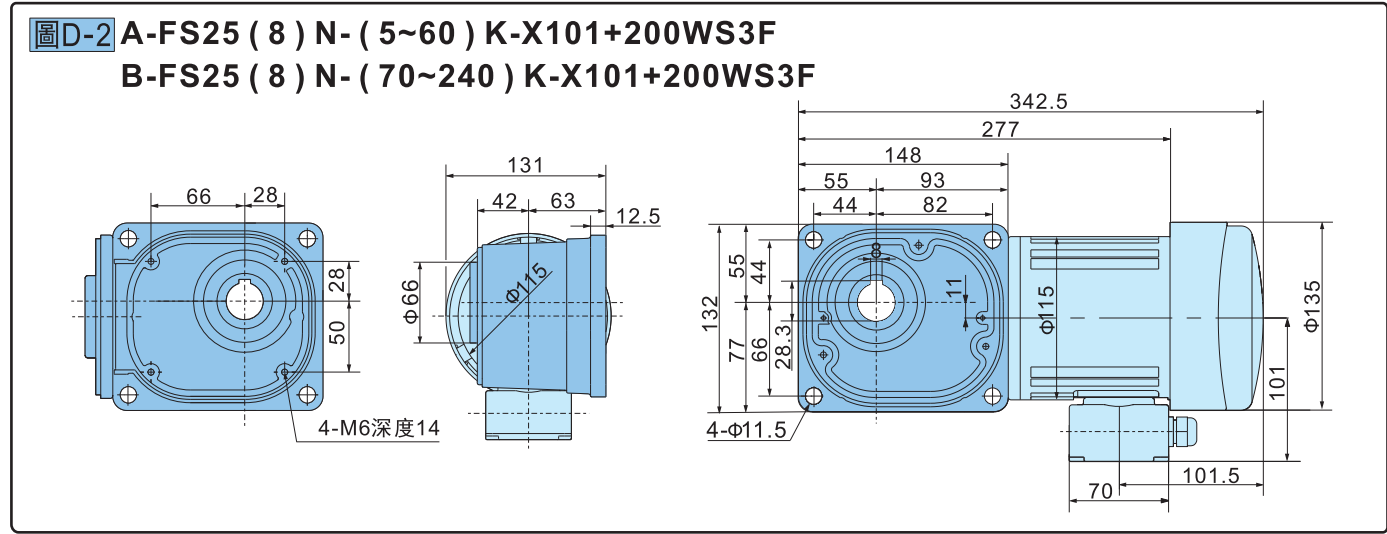
B-FF22 ( 6 ) T- ( 70~240 ) K-X101+200WS3F

| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.2kW       | 380                       | 50                           | 0.56                         | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 0.92                         | 1400                        |                          |                          |

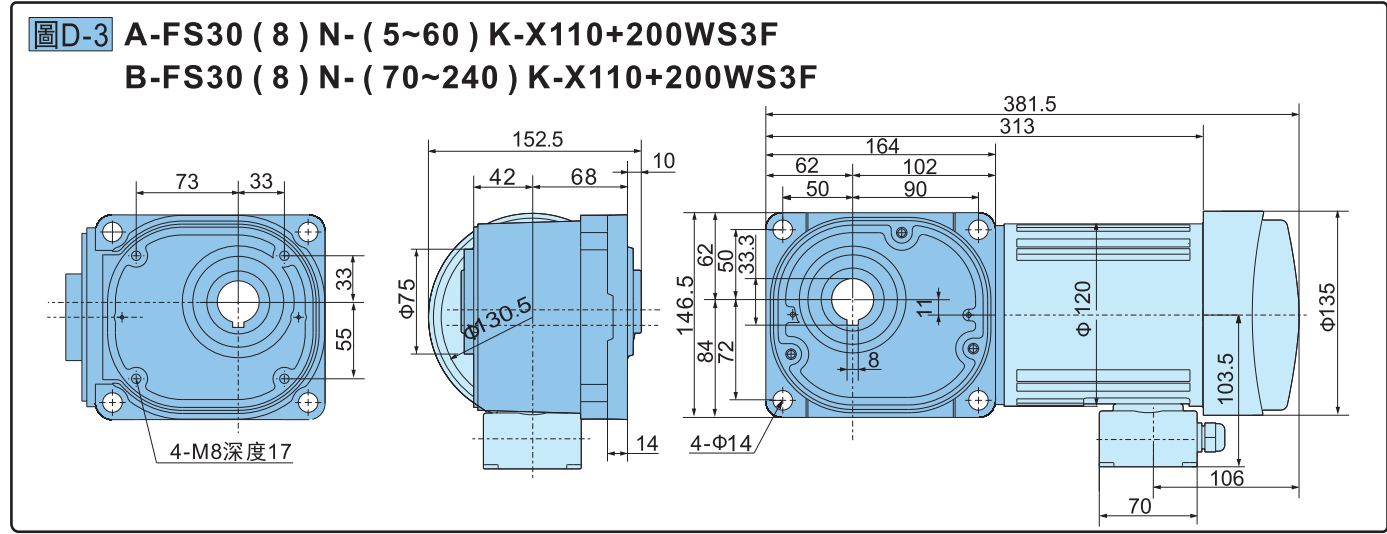
| Power<br>功率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |             | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |             | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction<br>ratio<br>實際減速比<br>( 分數 ) | Speed<br>轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |      | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |    |
|-------------|-------------------------------------------------|-------------|------------------------------------------------|-------------|---------------------|--------------|---------------------------------------|------------------|---------------------------|---------|----------------------------|------|--------------------------------|-----|----|
|             |                                                 |             |                                                |             |                     |              |                                       |                  | N · m                     | kgf · m | N                          | kgf  | N                              | kgf |    |
|             |                                                 |             |                                                |             |                     |              |                                       | 50Hz             | 50Hz                      | 50Hz    | N                          | kgf  | N                              | kgf |    |
| 0.2kW       | Φ25D<br>(8)                                     | D-2         | Φ22d<br>(6)                                    | D-22        | A                   | 1/5          | 1/5                                   | 300              | 5.5                       | 0.56    | 1320                       | 135  | 345                            | 35  |    |
|             |                                                 |             |                                                |             |                     | 1/7.5        | 2/15                                  | 200              | 8.3                       | 0.85    | 1420                       | 145  | 360                            | 37  |    |
|             |                                                 |             |                                                |             |                     | 1/10         | 1/10                                  | 150              | 11                        | 1.1     | 1520                       | 155  | 382                            | 39  |    |
|             |                                                 |             |                                                |             |                     | 1/12.5       | 19/230                                | 120              | 14                        | 1.4     | 1620                       | 165  | 402                            | 41  |    |
|             |                                                 |             |                                                |             |                     | 1/15         | 16/245                                | 100              | 17                        | 1.7     | 1720                       | 175  | 431                            | 44  |    |
|             |                                                 |             |                                                |             |                     | 1/20         | 1/20                                  | 75               | 23                        | 2.3     | 1860                       | 190  | 471                            | 48  |    |
|             |                                                 |             |                                                |             |                     | 1/25         | 29/720                                | 60               | 27                        | 2.8     | 2010                       | 205  | 500                            | 51  |    |
|             |                                                 |             |                                                |             |                     | 1/30         | 1/30                                  | 50               | 33                        | 3.4     | 2110                       | 215  | 530                            | 54  |    |
|             |                                                 |             |                                                |             |                     | 1/40         | 1/40                                  | 37.5             | 44                        | 4.5     | 2300                       | 235  | 579                            | 59  |    |
|             |                                                 |             |                                                |             |                     | 1/50         | 11/540                                | 30               | 55                        | 5.6     | 2450                       | 250  | 618                            | 63  |    |
|             |                                                 |             |                                                |             | 1/60                | 9/550        | 25                                    | 67               | 6.8                       | 2550    | 260                        | 637  | 65                             |     |    |
|             |                                                 |             |                                                |             | B                   | 1/80         | 1/80                                  | 18.8             | 84                        | 8.6     | 2550                       | 260  | 637                            | 65  |    |
|             |                                                 |             |                                                |             |                     | 1/100        | 19/1840                               | 15               | 105                       | 10.7    | 2550                       | 260  | 637                            | 65  |    |
|             |                                                 |             |                                                |             |                     | 1/120        | 2/245                                 | 12.5             | 101                       | 10.3    | 2550                       | 260  | 637                            | 65  |    |
|             |                                                 |             |                                                |             |                     | *1/160       | 1/160                                 | 9.4              | 101                       | 10.3    | 2550                       | 260  | 637                            | 65  |    |
|             |                                                 |             |                                                |             |                     | *1/200       | 1/200                                 | 7.5              | 101                       | 10.3    | 2550                       | 260  | 637                            | 65  |    |
|             |                                                 |             |                                                |             |                     | *1/240       | 1/240                                 | 6.3              | 101                       | 10.3    | 2550                       | 260  | 637                            | 65  |    |
|             |                                                 |             |                                                |             |                     | A            | 1/5                                   | 1/5              | 300                       | 11      | 1.1                        | 1520 | 155                            | 375 | 38 |
|             | 1/7.5                                           | 2/15        | 200                                            | 17          |                     |              | 1.7                                   | 1760             | 180                       | 438     | 45                         |      |                                |     |    |
|             | 1/10                                            | 1/10        | 150                                            | 23          | 2.3                 |              | 1910                                  | 195              | 475                       | 48      |                            |      |                                |     |    |
|             | 1/12.5                                          | 19/230      | 120                                            | 27          | 2.8                 |              | 2060                                  | 210              | 506                       | 52      |                            |      |                                |     |    |
|             | 1/15                                            | 16/245      | 100                                            | 33          | 3.4                 |              | 2160                                  | 220              | 539                       | 55      |                            |      |                                |     |    |
|             | 1/20                                            | 1/20        | 75                                             | 44          | 4.5                 |              | 2400                                  | 245              | 600                       | 61      |                            |      |                                |     |    |
|             | 1/25                                            | 29/720      | 60                                             | 55          | 5.6                 |              | 2550                                  | 260              | 637                       | 65      |                            |      |                                |     |    |
|             | 1/30                                            | 1/30        | 50                                             | 67          | 6.8                 |              | 2650                                  | 270              | 662                       | 68      |                            |      |                                |     |    |
|             | 1/40                                            | 1/40        | 37.5                                           | 88          | 9                   |              | 2840                                  | 290              | 711                       | 73      |                            |      |                                |     |    |
|             | 1/50                                            | 11/540      | 30                                             | 111         | 11.3                |              | 2990                                  | 305              | 747                       | 76      |                            |      |                                |     |    |
|             | B                                               | 1/60        | 9/550                                          | 25          | 133                 | 13.6         | 3090                                  | 315              | 767                       | 78      |                            |      |                                |     |    |
|             |                                                 | 1/80        | 1/80                                           | 18.8        | 162                 | 16.5         | 3090                                  | 260              | 637                       | 65      |                            |      |                                |     |    |
|             |                                                 | 1/100       | 19/1840                                        | 15          | 169                 | 17.2         | 3140                                  | 320              | 775                       | 79      |                            |      |                                |     |    |
|             |                                                 | 1/120       | 1/120                                          | 12.5        | 184                 | 18.8         | 3140                                  | 320              | 785                       | 80      |                            |      |                                |     |    |
|             |                                                 | 1/160       | 1/160                                          | 9.4         | 169                 | 16.9         | 3140                                  | 320              | 785                       | 80      |                            |      |                                |     |    |
|             |                                                 | 1/200       | 1/200                                          | 7.5         | 172                 | 17.2         | 3140                                  | 320              | 785                       | 80      |                            |      |                                |     |    |
|             |                                                 | 1/240       | 1/240                                          | 6.3         | 184                 | 18.8         | 3140                                  | 320              | 785                       | 80      |                            |      |                                |     |    |
|             |                                                 | Φ30D<br>(8) | D-3                                            | Φ28d<br>(8) | D-22                | A            | 1/5                                   | 1/5              | 300                       | 11      | 1.1                        | 1520 | 155                            | 375 | 38 |
|             |                                                 |             |                                                |             |                     |              | 1/7.5                                 | 2/15             | 200                       | 17      | 1.7                        | 1760 | 180                            | 438 | 45 |
|             |                                                 |             |                                                |             |                     |              | 1/10                                  | 1/10             | 150                       | 23      | 2.3                        | 1910 | 195                            | 475 | 48 |
|             | 1/12.5                                          |             |                                                |             |                     |              | 19/230                                | 120              | 27                        | 2.8     | 2060                       | 210  | 506                            | 52  |    |
| 1/15        | 16/245                                          |             |                                                |             |                     |              | 100                                   | 33               | 3.4                       | 2160    | 220                        | 539  | 55                             |     |    |
| 1/20        | 1/20                                            |             |                                                |             |                     |              | 75                                    | 44               | 4.5                       | 2400    | 245                        | 600  | 61                             |     |    |
| 1/25        | 29/720                                          |             |                                                |             |                     |              | 60                                    | 55               | 5.6                       | 2550    | 260                        | 637  | 65                             |     |    |
| 1/30        | 1/30                                            |             |                                                |             |                     |              | 50                                    | 67               | 6.8                       | 2650    | 270                        | 662  | 68                             |     |    |
| 1/40        | 1/40                                            |             |                                                |             |                     |              | 37.5                                  | 88               | 9                         | 2840    | 290                        | 711  | 73                             |     |    |
| 1/50        | 11/540                                          |             |                                                |             |                     |              | 30                                    | 111              | 11.3                      | 2990    | 305                        | 747  | 76                             |     |    |
| B           | 1/60                                            | 9/550       | 25                                             | 133         | 13.6                | 3090         | 315                                   | 767              | 78                        |         |                            |      |                                |     |    |
|             | 1/80                                            | 1/80        | 18.8                                           | 162         | 16.5                | 3090         | 260                                   | 637              | 65                        |         |                            |      |                                |     |    |
|             | 1/100                                           | 19/1840     | 15                                             | 169         | 17.2                | 3140         | 320                                   | 775              | 79                        |         |                            |      |                                |     |    |
|             | 1/120                                           | 1/120       | 12.5                                           | 184         | 18.8                | 3140         | 320                                   | 785              | 80                        |         |                            |      |                                |     |    |
|             | 1/160                                           | 1/160       | 9.4                                            | 169         | 16.9                | 3140         | 320                                   | 785              | 80                        |         |                            |      |                                |     |    |
|             | 1/200                                           | 1/200       | 7.5                                            | 172         | 17.2                | 3140         | 320                                   | 785              | 80                        |         |                            |      |                                |     |    |

Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm. 2.Output speed = motor/reduction ration. 3.※ Marked as torque limited.

( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。 3.※標記為轉矩力受限機型。



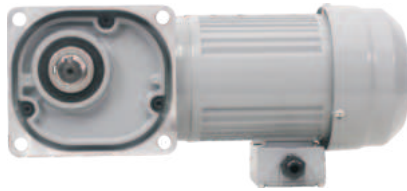
Note: See page 139 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見139頁。



Note: See page 139 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見139頁。

0.4kW

1-PHASE/3-PHASE  
單相/三相



A-FS25 ( 8 ) N- ( 5~30 ) K-X110+400WS3F

A-FF22 ( 6 ) T- ( 5~30 ) K-X110+400WS3F

B-FS25 ( 8 ) N- ( 35~120 ) K-X110+400WS3F

B-FF22 ( 6 ) T- ( 35~240 ) K-X110+400WS3F

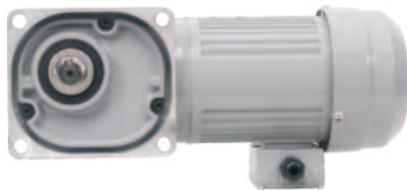
| Power<br>功 率 |                                                 | Rated Voltage<br>電 壓 ( V ) |                                                | Rated Frequency<br>頻 率 ( Hz ) |                  | Rated Currment<br>額定電流 ( A ) |                                        | Rated Speed<br>額定轉速 ( rpm ) |                                                 | Insucation class<br>絕緣等級 |                            | Protection class<br>防護等級 |                                |      |      |     |     |    |
|--------------|-------------------------------------------------|----------------------------|------------------------------------------------|-------------------------------|------------------|------------------------------|----------------------------------------|-----------------------------|-------------------------------------------------|--------------------------|----------------------------|--------------------------|--------------------------------|------|------|-----|-----|----|
| 0.4kW        |                                                 | 380                        |                                                | 50                            |                  | 1.0                          |                                        | 1400                        |                                                 | B                        |                            | 20 54                    |                                |      |      |     |     |    |
|              |                                                 | 220                        |                                                | 50                            |                  | 1.8                          |                                        | 1400                        |                                                 |                          |                            |                          |                                |      |      |     |     |    |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 |                          |                            |                          |                                |      |      |     |     |    |
| Power<br>功 率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |                            | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |                               | Gear case<br>齒輪箱 | Ratio<br>減速比                 | Reduction<br>ratio<br>實際減速比<br>( 分 數 ) | Speed<br>轉速(rpm)            | Output Torque<br>輸出軸容許轉矩力<br>N · m      kgf · m |                          | Output O.H.L<br>輸出軸容許O.H.L |                          | Output shaft<br>輸出軸容許軸向<br>力負荷 |      |      |     |     |    |
|              |                                                 |                            |                                                |                               |                  |                              |                                        | 50Hz                        | 50Hz                                            | 50Hz                     | N                          | kgf                      | N                              | kgf  |      |     |     |    |
| 0.4kW        | Φ25D<br>(8)                                     |                            | D-4                                            |                               | Φ22d<br>(6)      |                              | D-22                                   |                             | A                                               | 1/5                      | 1/5                        | 300                      | 11                             | 1.1  | 1320 | 135 | 345 | 35 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/7.5                    | 2/15                       | 200                      | 17                             | 1.7  | 1420 | 145 | 360 | 37 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/10                     | 1/10                       | 150                      | 23                             | 2.3  | 1520 | 155 | 382 | 39 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/12.5                   | 19/230                     | 120                      | 27                             | 2.7  | 1620 | 165 | 402 | 41 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/15                     | 16/245                     | 100                      | 33                             | 3.4  | 1720 | 175 | 431 | 44 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/20                     | 1/20                       | 75                       | 44                             | 4.5  | 1860 | 190 | 471 | 48 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/25                     | 29/720                     | 60                       | 55                             | 5.6  | 2010 | 205 | 500 | 51 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             | B                                               | 1/30                     | 1/30                       | 50                       | 67                             | 6.8  | 2110 | 215 | 530 | 54 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/40                     | 1/40                       | 37.5                     | 88                             | 9    | 2300 | 235 | 579 | 59 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/50                     | 11/540                     | 30                       | 101                            | 10.3 | 2450 | 250 | 618 | 63 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/60                     | 9/550                      | 75                       | 101                            | 10.3 | 2550 | 260 | 637 | 65 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | *1/80                    | 1/80                       | 18.8                     | 101                            | 10.3 | 2550 | 260 | 637 | 65 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | *1/100                   | 1/100                      | 15                       | 101                            | 10.3 | 2550 | 260 | 637 | 65 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | *1/120                   | 1/120                      | 12.5                     | 101                            | 10.3 | 2550 | 260 | 637 | 65 |
|              | Φ30D<br>(8)                                     |                            | D-5                                            |                               | Φ28d<br>(8)      |                              | D-22                                   |                             | A                                               | 1/5                      | 1/5                        | 300                      | 11                             | 1.1  | 1520 | 155 | 382 | 39 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/7.5                    | 2/15                       | 200                      | 17                             | 1.7  | 1760 | 180 | 441 | 45 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/10                     | 1/10                       | 150                      | 23                             | 2.3  | 1910 | 195 | 481 | 49 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/12.5                   | 19/235                     | 120                      | 27                             | 2.7  | 2060 | 210 | 520 | 53 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/15                     | 1/15                       | 100                      | 33                             | 3.4  | 2160 | 220 | 539 | 55 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/20                     | 1/20                       | 75                       | 44                             | 4.5  | 2400 | 245 | 598 | 61 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/25                     | 1/25                       | 60                       | 55                             | 5.6  | 2550 | 260 | 637 | 65 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             | B                                               | 1/30                     | 1/30                       | 50                       | 67                             | 6.8  | 2650 | 270 | 667 | 68 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/40                     | 1/40                       | 37.5                     | 88                             | 9    | 2840 | 290 | 716 | 73 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/50                     | 19/940                     | 30                       | 111                            | 11.3 | 3090 | 305 | 775 | 79 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/60                     | 1/60                       | 25                       | 133                            | 13.6 | 3090 | 315 | 775 | 79 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/80                     | 1/80                       | 18.8                     | 169                            | 17.2 | 3090 | 315 | 785 | 80 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/100                    | 19/1880                    | 15                       | 184                            | 18.8 | 3140 | 320 | 785 | 80 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | 1/120                    | 1/120                      | 12.5                     | 184                            | 18.8 | 3140 | 320 | 785 | 80 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | *1/160                   | 1/160                      | 9.4                      | 184                            | 18.8 | 3140 | 320 | 785 | 80 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | *1/200                   | 1/200                      | 7.5                      | 184                            | 18.8 | 3140 | 320 | 785 | 80 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                                                 | *1/240                   | 1/240                      | 6.3                      | 184                            | 18.8 | 3140 | 320 | 785 | 80 |

Note: 1. Allow O.H.L to be the value of output shaft end face at 20mm. ( 注 ) 1. 容許O.H.L為輸出軸端面20mm位置的數值。  
2. Output speed = motor/reduction ration. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. \* Marked as torque limited. 3. \* 標記為轉矩力受限機型。



0.4kW

1-PHASE/3-PHASE  
單相/三相



A-FS30 ( 8 ) N- ( 5~60 ) K-X120+400WS3F

B-FS30 ( 8 ) N- ( 70~240 ) K-X120+400WS3F

A-FF28 ( 8 ) T- ( 5~60 ) K-X120+400WS3F

B-FF28 ( 8 ) T- ( 70~240 ) K-X120+400WS3F

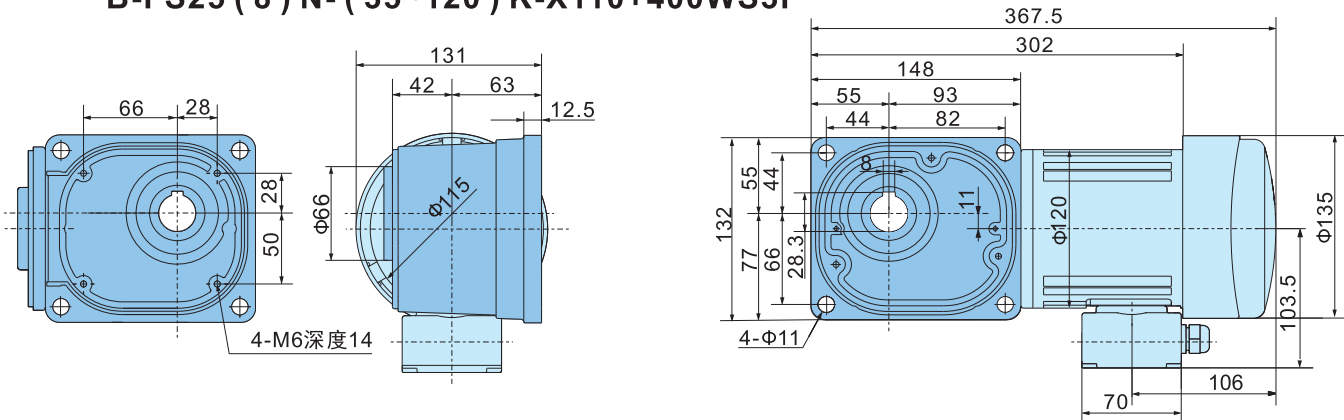
| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.4kW       | 380                       | 50                           | 1.0                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 1.8                          | 1400                        |                          |                          |

| Power<br>功 率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |     | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |      | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction<br>ratio<br>實際減速比<br>( 分 數 ) | Speed<br>轉速(rpm) | Output Torque<br>輸出軸容許轉矩力<br>N · m      kgf · m |      | Output O.H.L<br>輸出軸容許O.H.L |     | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|--------------|-------------------------------------------------|-----|------------------------------------------------|------|---------------------|--------------|----------------------------------------|------------------|-------------------------------------------------|------|----------------------------|-----|--------------------------------|-----|
|              |                                                 |     |                                                |      |                     |              |                                        | 50Hz             | 50Hz                                            | 50Hz | N                          | kgf | N                              | kgf |
| 0.4kW        | Φ35D<br>(10)                                    | D-6 | Φ32d<br>(10)                                   | D-22 | A                   | 1/5          | 1/5                                    | 300              | 11                                              | 1.1  | 1960                       | 200 | 500                            | 51  |
|              |                                                 |     |                                                |      |                     | 1/7.5        | 2/15                                   | 200              | 17                                              | 1.7  | 2250                       | 230 | 567                            | 58  |
|              |                                                 |     |                                                |      |                     | 1/10         | 1/10                                   | 150              | 23                                              | 2.3  | 2450                       | 250 | 613                            | 63  |
|              |                                                 |     |                                                |      |                     | 1/12.5       | 19/235                                 | 120              | 27                                              | 2.7  | 2600                       | 265 | 669                            | 68  |
|              |                                                 |     |                                                |      |                     | 1/15         | 1/15                                   | 100              | 33                                              | 3.4  | 2740                       | 280 | 686                            | 70  |
|              |                                                 |     |                                                |      |                     | 1/20         | 1/20                                   | 75               | 44                                              | 4.5  | 2990                       | 305 | 747                            | 76  |
|              |                                                 |     |                                                |      |                     | 1/25         | 1/25                                   | 60               | 55                                              | 5.6  | 3190                       | 325 | 796                            | 81  |
|              |                                                 |     |                                                |      |                     | 1/30         | 1/30                                   | 50               | 67                                              | 6.8  | 3280                       | 335 | 821                            | 84  |
|              |                                                 |     |                                                |      |                     | 1/40         | 1/40                                   | 37.5             | 88                                              | 9    | 3480                       | 355 | 870                            | 89  |
|              |                                                 |     |                                                |      |                     | 1/50         | 1/50                                   | 30               | 111                                             | 11.3 | 3480                       | 355 | 870                            | 89  |
|              |                                                 |     |                                                |      | 1/60                | 1/60         | 25                                     | 133              | 13.6                                            | 3480 | 355                        | 870 | 89                             |     |
|              |                                                 |     |                                                |      | B                   | 1/80         | 1/80                                   | 18.8             | 169                                             | 17.2 | 3480                       | 355 | 873                            | 89  |
|              |                                                 |     |                                                |      |                     | 1/100        | 19/1880                                | 15               | 211                                             | 21.5 | 3530                       | 360 | 873                            | 90  |
|              |                                                 |     |                                                |      |                     | 1/120        | 1/120                                  | 12.5             | 253                                             | 25.8 | 3530                       | 360 | 883                            | 90  |
|              |                                                 |     |                                                |      |                     | 1/160        | 1/160                                  | 9.4              | 270                                             | 27.6 | 3630                       | 370 | 912                            | 93  |
|              |                                                 |     |                                                |      |                     | 1/200        | 1/200                                  | 7.5              | 270                                             | 27.6 | 3630                       | 370 | 912                            | 93  |
|              |                                                 |     |                                                |      |                     | 1/240        | 1/240                                  | 6.25             | 270                                             | 27.6 | 3630                       | 370 | 912                            | 93  |

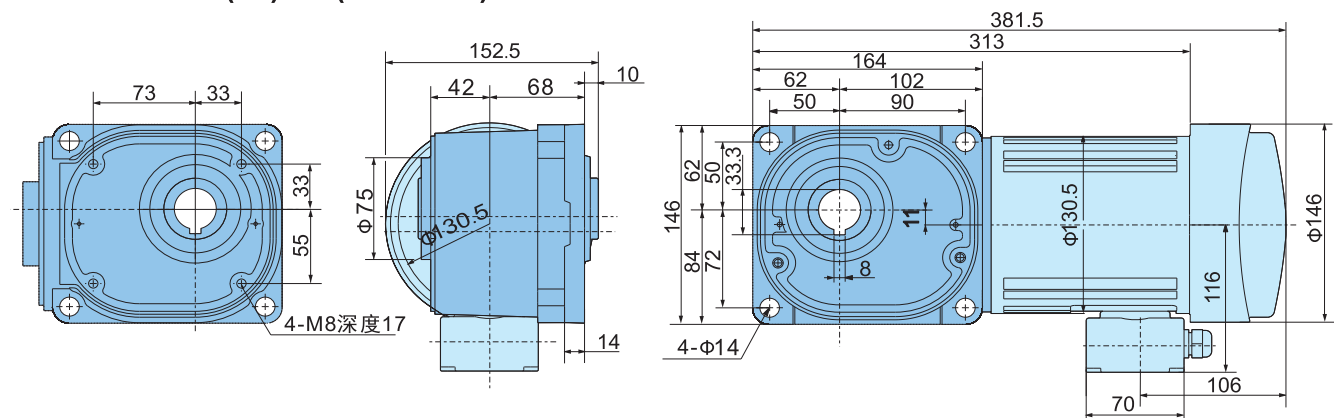
Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm.  
2.Output speed = motor/reduction ration.  
3.\* Marked as torque limited.

( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.\*標記為轉矩力受限機型。

圖D-4 A-FS25 ( 8 ) N- ( 5~30 ) K-X110+400WS3F  
B-FS25 ( 8 ) N- ( 35~120 ) K-X110+400WS3F

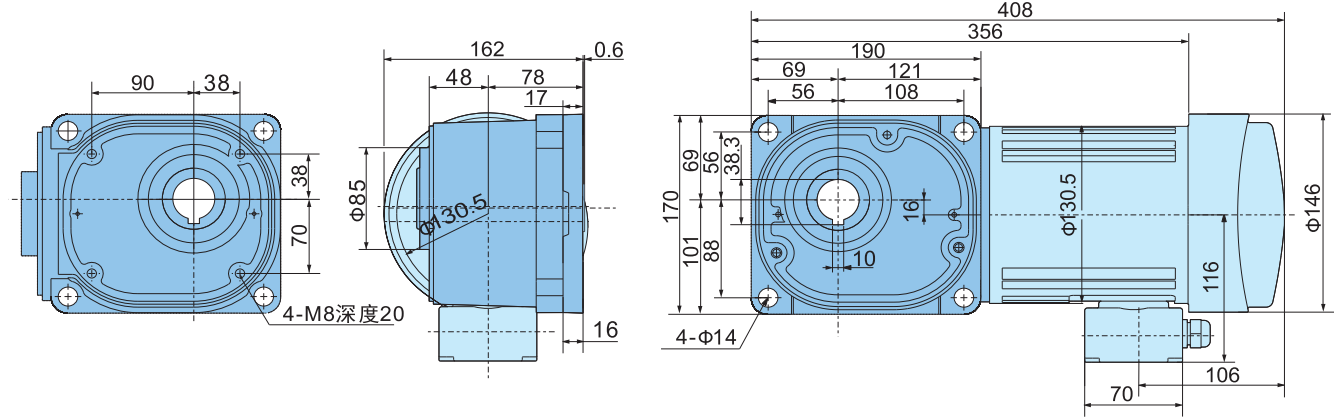


圖D-5 A-FS30 ( 8 ) N- ( 5~60 ) K-X120+400WS3F  
B-FS30 ( 8 ) N- ( 70~240 ) K-X120+400WS3F



Note: See page 139 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見139頁。

圖D-6 A-FS35 ( 10 ) N- ( 5~60 ) K-X120+400WS3F  
B-FS35 ( 10 ) N- ( 70~240 ) K-X120+400WS3F

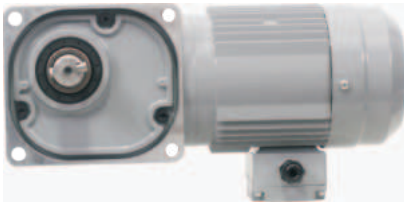
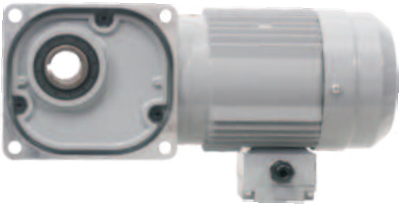


Note: See page 139 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見139頁。



0.75kW

1-PHASE/3-PHASE  
單相/三相



A-FS30 ( 8 ) N- ( 5~30 ) K-X120+750WS3F

A-FF28 ( 8 ) T- ( 5~30 ) K-X120+750WS3F

B-FS30 ( 8 ) N- ( 40~120 ) K-X120+750WS3F

B-FF28 ( 8 ) T- ( 40~120 ) K-X120+750WS3F

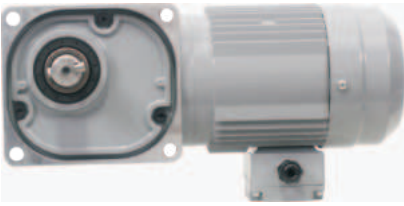
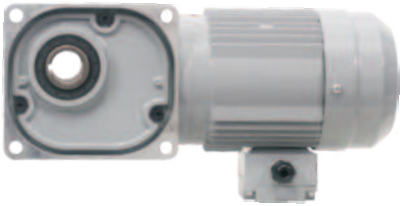
| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.75kW      | 380                       | 50                           | 1.8                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 3.2                          | 1400                        |                          |                          |

| Power<br>功率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |     | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |      | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction<br>ratio<br>實際減速比<br>( 分數 ) | Speed<br>轉速(rpm)<br>50Hz | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|-------------|-------------------------------------------------|-----|------------------------------------------------|------|---------------------|--------------|---------------------------------------|--------------------------|---------------------------|---------|----------------------------|-----|--------------------------------|-----|
|             |                                                 |     |                                                |      |                     |              |                                       |                          | N · m                     | kgf · m | N                          | kgf | N                              | kgf |
|             |                                                 |     |                                                |      |                     |              |                                       |                          | 50Hz                      | 50Hz    |                            |     |                                |     |
| 0.75<br>kW  | Φ30D<br>(8)                                     | D-7 | Φ28d<br>(8)                                    | D-22 | A                   | 1/5          | 1/5                                   | 300                      | 21                        | 2.1     | 1520                       | 155 | 375                            | 38  |
|             |                                                 |     |                                                |      |                     | 1/7.5        | 2/15                                  | 200                      | 31                        | 3.2     | 1760                       | 180 | 438                            | 45  |
|             |                                                 |     |                                                |      |                     | 1/10         | 1/10                                  | 150                      | 41                        | 4.2     | 1910                       | 195 | 475                            | 48  |
|             |                                                 |     |                                                |      |                     | 1/12.5       | 19/235                                | 120                      | 52                        | 5.3     | 2060                       | 210 | 506                            | 52  |
|             |                                                 |     |                                                |      |                     | 1/15         | 1/15                                  | 100                      | 63                        | 6.4     | 2160                       | 220 | 539                            | 55  |
|             |                                                 |     |                                                |      |                     | 1/20         | 1/20                                  | 75                       | 83                        | 8.5     | 2400                       | 245 | 600                            | 61  |
|             |                                                 |     |                                                |      |                     | 1/25         | 29/720                                | 60                       | 104                       | 10.6    | 2550                       | 260 | 637                            | 65  |
|             |                                                 |     |                                                |      |                     | 1/30         | 1/30                                  | 50                       | 124                       | 12.7    | 3140                       | 320 | 662                            | 68  |
|             |                                                 |     |                                                |      | B                   | 1/40         | 1/40                                  | 37.5                     | 166                       | 16.9    | 3480                       | 355 | 711                            | 73  |
|             |                                                 |     |                                                |      |                     | 1/50         | 19/940                                | 30                       | 198                       | 20.2    | 4116                       | 420 | 747                            | 76  |
|             |                                                 |     |                                                |      |                     | 1/60         | 1/60                                  | 25                       | 198                       | 20.2    | 4116                       | 420 | 747                            | 76  |
|             |                                                 |     |                                                |      |                     | ※1/80        | 1/80                                  | 18.8                     | 198                       | 20.2    | 4116                       | 420 | 747                            | 76  |
|             |                                                 |     |                                                |      |                     | ※1/100       | 1/100                                 | 15                       | 198                       | 20.2    | 4116                       | 420 | 747                            | 76  |
|             |                                                 |     |                                                |      |                     | ※1/120       | 1/120                                 | 12.5                     | 198                       | 20.2    | 4116                       | 420 | 747                            | 76  |
|             | Φ35D<br>(10)                                    | D-8 | Φ32d<br>(10)                                   | D-22 | A                   | 1/5          | 1/5                                   | 300                      | 21                        | 2.1     | 1960                       | 200 | 500                            | 51  |
|             |                                                 |     |                                                |      |                     | 1/7.5        | 2/15                                  | 200                      | 31                        | 3.2     | 2250                       | 230 | 567                            | 58  |
|             |                                                 |     |                                                |      |                     | 1/10         | 1/10                                  | 150                      | 41                        | 4.2     | 2450                       | 250 | 613                            | 63  |
|             |                                                 |     |                                                |      |                     | 1/12.5       | 19/235                                | 120                      | 52                        | 5.3     | 2600                       | 265 | 669                            | 68  |
|             |                                                 |     |                                                |      |                     | 1/15         | 1/15                                  | 100                      | 63                        | 6.4     | 2740                       | 280 | 686                            | 70  |
|             |                                                 |     |                                                |      |                     | 1/20         | 1/20                                  | 75                       | 83                        | 8.5     | 2990                       | 305 | 747                            | 76  |
|             |                                                 |     |                                                |      |                     | 1/25         | 29/720                                | 60                       | 104                       | 10.6    | 3190                       | 325 | 796                            | 81  |
|             |                                                 |     |                                                |      |                     | 1/30         | 1/30                                  | 50                       | 124                       | 12.7    | 3280                       | 335 | 821                            | 84  |
|             |                                                 |     |                                                |      | B                   | 1/40         | 1/40                                  | 37.5                     | 166                       | 16.9    | 3480                       | 355 | 870                            | 89  |
|             |                                                 |     |                                                |      |                     | 1/50         | 19/940                                | 30                       | 208                       | 21.2    | 3480                       | 355 | 870                            | 89  |
|             |                                                 |     |                                                |      |                     | 1/60         | 1/60                                  | 25                       | 249                       | 25.4    | 3480                       | 355 | 870                            | 89  |
|             |                                                 |     |                                                |      |                     | 1/80         | 1/80                                  | 18.8                     | 316                       | 32.2    | 3480                       | 355 | 873                            | 89  |
|             |                                                 |     |                                                |      |                     | 1/100        | 19/1880                               | 15                       | 395                       | 40.3    | 3530                       | 360 | 883                            | 90  |
|             |                                                 |     |                                                |      |                     | 1/120        | 1/120                                 | 12.5                     | 473                       | 48.3    | 3530                       | 360 | 883                            | 90  |
|             |                                                 |     |                                                |      |                     | ※1/160       | 1/160                                 | 9.4                      | 395                       | 40.3    | 3530                       | 360 | 883                            | 90  |
|             |                                                 |     |                                                |      |                     | ※1/200       | 1/200                                 | 7.5                      | 395                       | 40.3    | 3530                       | 360 | 883                            | 90  |
|             |                                                 |     |                                                |      |                     | ※1/240       | 1/240                                 | 6.3                      | 395                       | 40.3    | 3530                       | 360 | 883                            | 90  |

Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm. ( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.※ Marked as torque limited. 3.※標記為轉矩力受限機型。

0.75kW

1-PHASE/3-PHASE  
單相/三相



A-FS45 ( 14 ) N- ( 5~60 ) K-X140+750WS3F

A-FF40 ( 12 ) T- ( 5~60 ) K-X140+750WS3F

B-FS45 ( 14 ) N- ( 70~240 ) K-X140+750WS3F

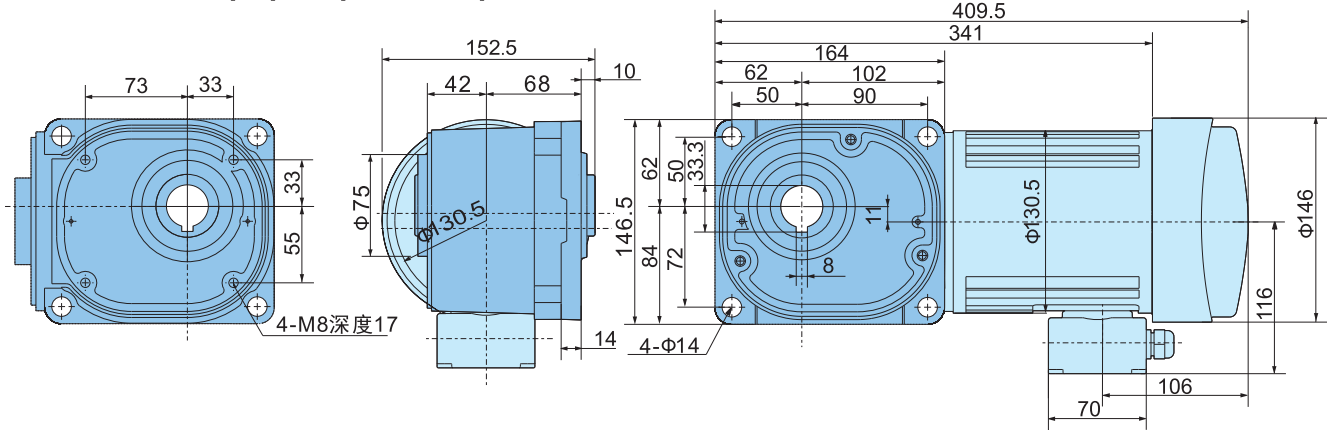
B-FF40 ( 12 ) T- ( 70~240 ) K-X140+750WS3F

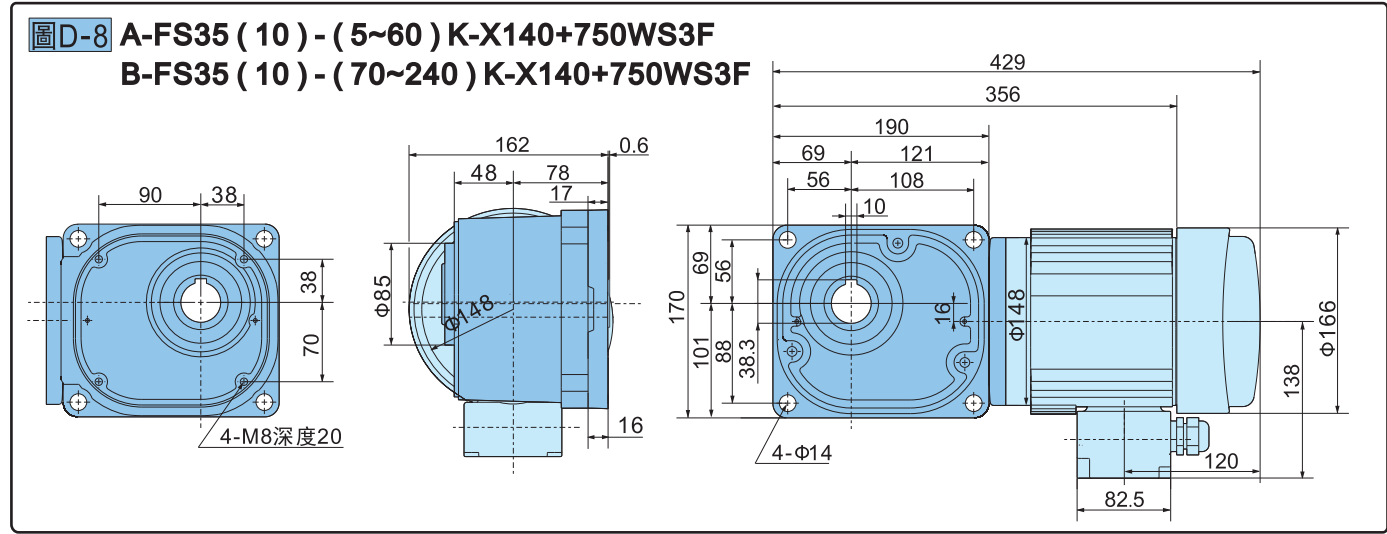
| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.75kW      | 380                       | 50                           | 1.8                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 3.2                          | 1400                        |                          |                          |

| Power<br>功率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |     | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |      | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction<br>ratio<br>實際減速比<br>( 分數 ) | Speed<br>轉速(rpm)<br>50Hz | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|-------------|-------------------------------------------------|-----|------------------------------------------------|------|---------------------|--------------|---------------------------------------|--------------------------|---------------------------|---------|----------------------------|-----|--------------------------------|-----|
|             |                                                 |     |                                                |      |                     |              |                                       |                          | N · m                     | kgf · m | N                          | kgf | N                              | kgf |
|             |                                                 |     |                                                |      |                     |              |                                       |                          | 50Hz                      | 50Hz    |                            |     |                                |     |
| 0.75<br>kW  | Φ45D<br>(14)                                    | D-9 | Φ40d<br>(12)                                   | D-22 | A                   | 1/5          | 1/5                                   | 300                      | 21                        | 2.1     | 1960                       | 200 | 500                            | 51  |
|             |                                                 |     |                                                |      |                     | 1/7.5        | 2/15                                  | 200                      | 31                        | 3.2     | 2250                       | 230 | 567                            | 58  |
|             |                                                 |     |                                                |      |                     | 1/10         | 1/10                                  | 150                      | 41                        | 4.2     | 2450                       | 250 | 613                            | 63  |
|             |                                                 |     |                                                |      |                     | 1/12.5       | 19/235                                | 120                      | 52                        | 5.3     | 2600                       | 265 | 669                            | 68  |
|             |                                                 |     |                                                |      |                     | 1/15         | 1/15                                  | 100                      | 63                        | 6.4     | 2740                       | 280 | 686                            | 70  |
|             |                                                 |     |                                                |      |                     | 1/20         | 1/20                                  | 75                       | 83                        | 8.5     | 2990                       | 305 | 747                            | 76  |
|             |                                                 |     |                                                |      |                     | 1/25         | 29/720                                | 60                       | 104                       | 10.6    | 3190                       | 325 | 796                            | 81  |
|             |                                                 |     |                                                |      |                     | 1/30         | 1/30                                  | 50                       | 124                       | 12.7    | 3280                       | 335 | 821                            | 84  |
|             |                                                 |     |                                                |      |                     | 1/40         | 1/40                                  | 37.5                     | 166                       | 16.9    | 3480                       | 355 | 870                            | 89  |
|             |                                                 |     |                                                |      |                     | 1/50         | 19/940                                | 30                       | 208                       | 21.2    | 3480                       | 355 | 870                            | 89  |
|             |                                                 |     |                                                |      |                     | 1/60         | 1/60                                  | 25                       | 249                       | 25.4    | 3480                       | 355 | 870                            | 89  |
|             |                                                 |     |                                                |      | B                   | 1/80         | 1/80                                  | 18.8                     | 316                       | 32.2    | 4750                       | 485 | 1177                           | 120 |
|             |                                                 |     |                                                |      |                     | 1/100        | 19/1880                               | 15                       | 395                       | 40.3    | 4750                       | 485 | 1177                           | 120 |
|             |                                                 |     |                                                |      |                     | 1/120        | 1/120                                 | 12.5                     | 473                       | 48.3    | 4750                       | 485 | 1177                           | 120 |
|             |                                                 |     |                                                |      |                     | 1/160        | 1/160                                 | 9.4                      | 554                       | 56.5    | 5190                       | 530 | 1275                           | 130 |
|             |                                                 |     |                                                |      |                     | 1/200        | 1/200                                 | 7.5                      | 554                       | 56.5    | 5190                       | 530 | 1275                           | 130 |
|             |                                                 |     |                                                |      |                     | 1/240        | 1/240                                 | 6.3                      | 554                       | 56.5    | 5190                       | 530 | 1275                           | 130 |

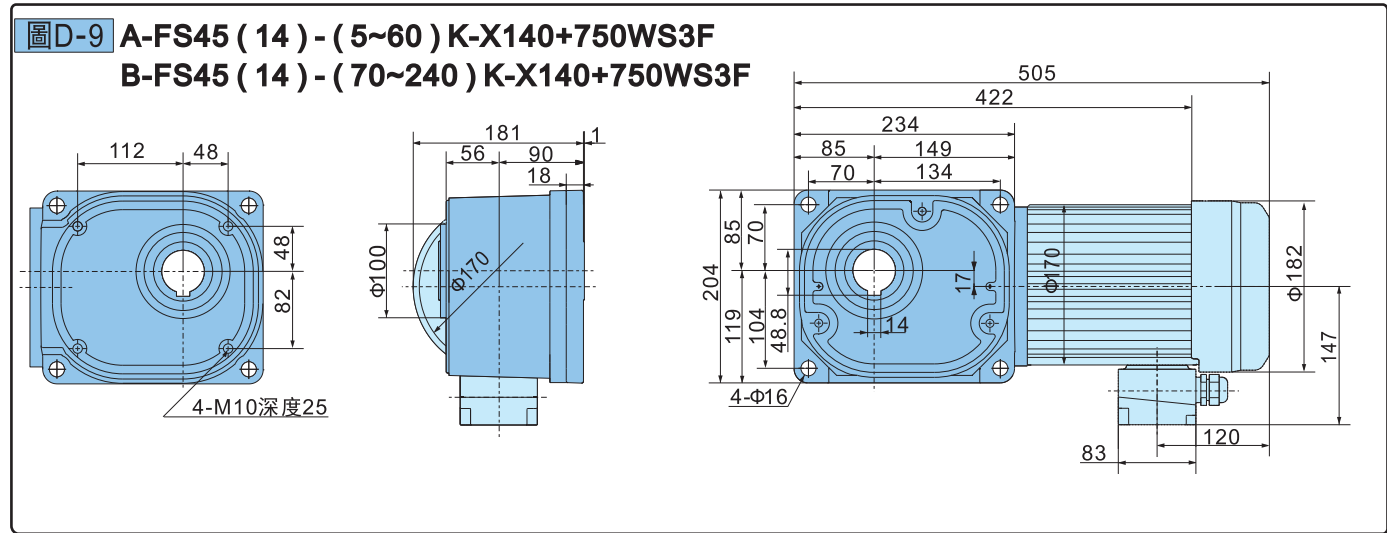
Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm. ( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.※ Marked as torque limited. 3.※標記為轉矩力受限機型。

圖D-7 A-FS30 ( 8 ) N- ( 5~30 ) K-X120+750WS3F  
B-FS30 ( 8 ) N- ( 40~120 ) K-X120+750WS3F



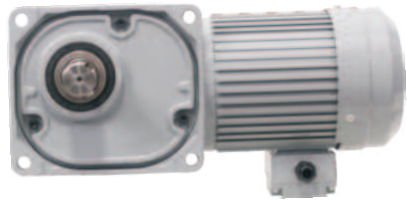
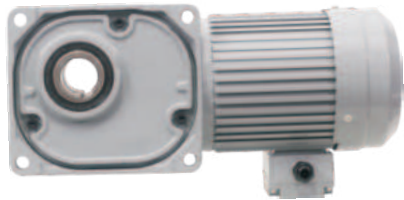


Note: See page 139 for detailed dimensions of output shaft.  
(注)：輸出軸部詳細尺寸見139頁。



Note: See page 139 for detailed dimensions of output shaft.  
(注)：輸出軸部詳細尺寸見139頁。

1.1kW  
1-PHASE/3-PHASE  
單相/三相

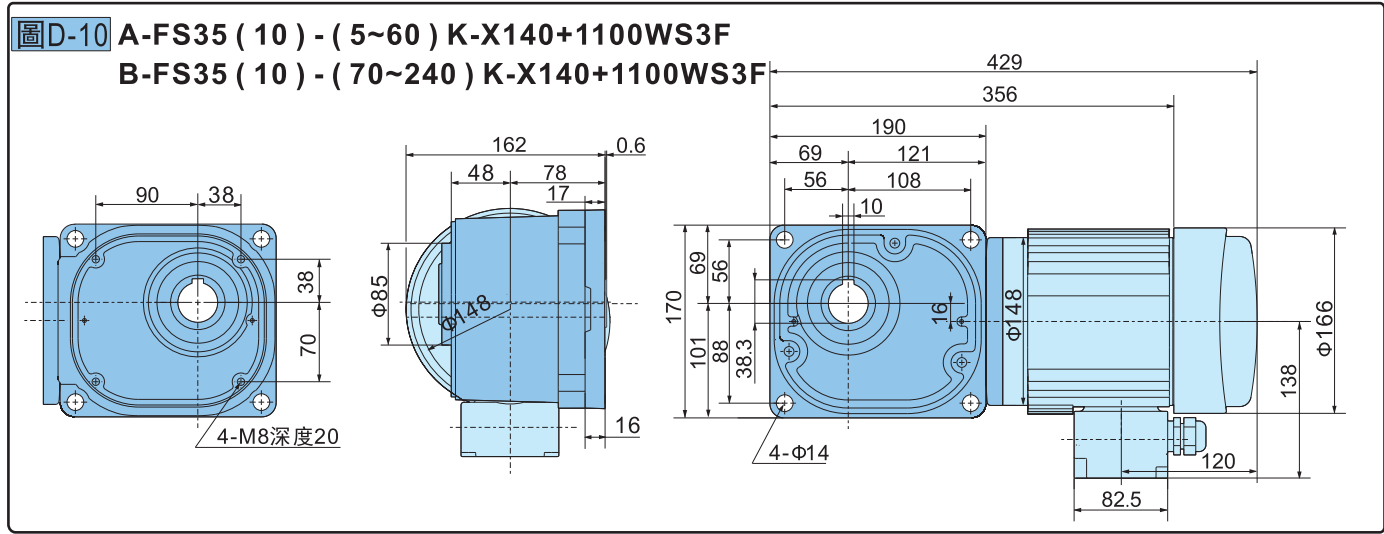


A-FS45 (14) - (5~60) K-X160+1100WS3F    A-FF40 (12) T- (5~60) K-X160+1100WS3F  
B-FS45 (14) - (70~240) K-X160+1100WS3F    B-FF40 (12) T- (70~240) K-X160+1100WS3F

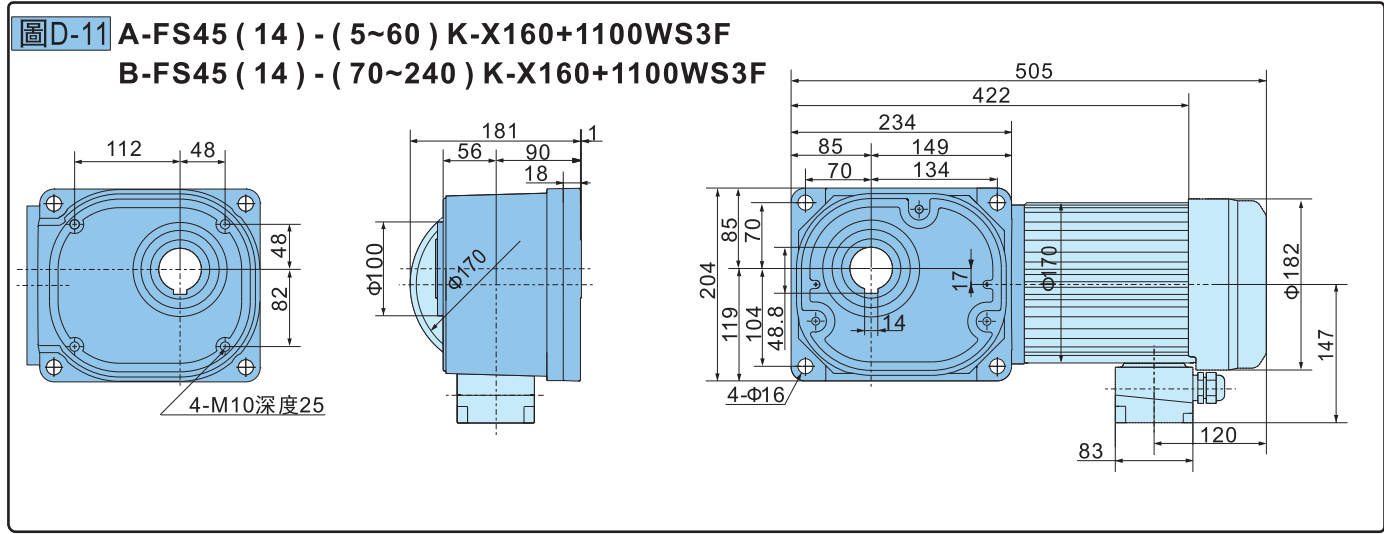
| Power<br>功 率 |                                                 | Rated Voltage<br>電 壓 ( V ) |                                                | Rated Frequency<br>頻 率 ( Hz ) |                  | Rated Currment<br>額定電流 ( A ) |                                        | Rated Speed<br>額定轉速 ( rpm ) |                           | Insucation class<br>絕緣等級 |                            | Protection class<br>防護等級 |                                |      |      |     |      |     |
|--------------|-------------------------------------------------|----------------------------|------------------------------------------------|-------------------------------|------------------|------------------------------|----------------------------------------|-----------------------------|---------------------------|--------------------------|----------------------------|--------------------------|--------------------------------|------|------|-----|------|-----|
| 1.1kW        |                                                 | 380                        |                                                | 50                            |                  | 2.5                          |                                        | 1400                        |                           | B                        |                            | 20 54                    |                                |      |      |     |      |     |
|              |                                                 | 220                        |                                                | 50                            |                  | 4.4                          |                                        | 1400                        |                           |                          |                            |                          |                                |      |      |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           |                          |                            |                          |                                |      |      |     |      |     |
| Power<br>功 率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |                            | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |                               | Gear case<br>齒輪箱 | Ratio<br>減速比                 | Reduction<br>ratio<br>實際減速比<br>( 分 數 ) | Speed<br>轉速(rpm)            | Output Torque<br>輸出軸容許轉矩力 |                          | Output O.H.L<br>輸出軸容許O.H.L |                          | Output shaft<br>輸出軸容許軸向<br>力負荷 |      |      |     |      |     |
|              |                                                 |                            |                                                |                               |                  |                              |                                        | 50Hz                        | N · m                     | kgf · m                  | N                          | kgf                      | N                              | kgf  |      |     |      |     |
| 1.1kW        | Φ35D<br>(10)                                    |                            | D-10                                           |                               | Φ32d<br>(10)     |                              | D-22                                   |                             | A                         | 1/5                      | 1/5                        | 300                      | 30                             | 3.1  | 1960 | 200 | 490  | 50  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/7.5                    | 2/15                       | 200                      | 45                             | 4.6  | 2250 | 230 | 541  | 55  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/10                     | 1/10                       | 150                      | 60                             | 6.1  | 2450 | 250 | 581  | 59  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/12.5                   | 19/235                     | 120                      | 74                             | 7.5  | 2600 | 265 | 669  | 68  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/15                     | 1/15                       | 100                      | 89                             | 9.1  | 2750 | 280 | 686  | 70  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/20                     | 1/20                       | 75                       | 119                            | 12.1 | 2990 | 305 | 745  | 76  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/25                     | 29/720                     | 60                       | 148                            | 15.1 | 3190 | 325 | 794  | 81  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/30                     | 1/30                       | 50                       | 178                            | 18.1 | 3280 | 335 | 824  | 84  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             | B                         | 1/40                     | 1/40                       | 37.5                     | 224                            | 22.8 | 3480 | 355 | 873  | 89  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/50                     | 19/940                     | 30                       | 262                            | 26.7 | 3480 | 355 | 873  | 89  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/60                     | 1/60                       | 25                       | 262                            | 26.7 | 3480 | 355 | 873  | 89  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | ※1/80                    | 1/80                       | 18.8                     | 262                            | 26.7 | 3480 | 355 | 873  | 89  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | ※1/100                   | 19/1880                    | 15                       | 262                            | 26.7 | 3480 | 355 | 873  | 89  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | ※1/120                   | 1/120                      | 12.5                     | 262                            | 26.7 | 3480 | 355 | 873  | 89  |
|              | Φ45D<br>(14)                                    |                            | D-11                                           |                               | Φ40d<br>(12)     |                              | D-22                                   |                             | A                         | 1/5                      | 1/5                        | 300                      | 32                             | 3.2  | 2940 | 300 | 800  | 82  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/7.5                    | 2/15                       | 200                      | 47                             | 4.8  | 3330 | 340 | 967  | 99  |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/10                     | 1/10                       | 150                      | 63                             | 6.4  | 3630 | 370 | 1040 | 106 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/12.5                   | 19/235                     | 120                      | 79                             | 8    | 3920 | 400 | 1067 | 109 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/15                     | 1/15                       | 100                      | 95                             | 9.6  | 4070 | 415 | 1067 | 109 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/20                     | 1/20                       | 75                       | 126                            | 13   | 4460 | 455 | 1067 | 109 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/25                     | 29/720                     | 60                       | 158                            | 16   | 4700 | 480 | 1067 | 109 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/30                     | 1/30                       | 50                       | 189                            | 19.3 | 4750 | 485 | 1067 | 109 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/40                     | 1/40                       | 37.5                     | 252                            | 25.7 | 4750 | 485 | 1067 | 109 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/50                     | 19/940                     | 30                       | 315                            | 32.1 | 4750 | 485 | 1067 | 109 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/60                     | 1/60                       | 25                       | 378                            | 38.6 | 4750 | 485 | 1067 | 109 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             | B                         | 1/80                     | 1/80                       | 18.8                     | 504                            | 51.5 | 4750 | 485 | 1177 | 120 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/100                    | 19/1880                    | 15                       | 630                            | 64.3 | 4750 | 485 | 1177 | 120 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/120                    | 1/120                      | 12.5                     | 756                            | 72.1 | 4750 | 485 | 1177 | 120 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/160                    | 1/160                      | 9.4                      | 764                            | 78   | 5190 | 530 | 1275 | 130 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/200                    | 1/200                      | 7.5                      | 764                            | 78   | 5190 | 530 | 1275 | 130 |
|              |                                                 |                            |                                                |                               |                  |                              |                                        |                             |                           | 1/240                    | 1/240                      | 6.3                      | 764                            | 78   | 5190 | 530 | 1275 | 130 |

Note: 1. Allow O.H.L to be the value of output shaft end face at 20mm.    (注) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2. Output speed = motor/reduction ration.    2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ Marked as torque limited.    3.※標記為轉矩力受限機型。





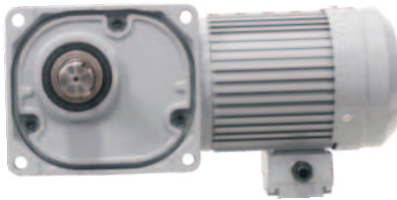
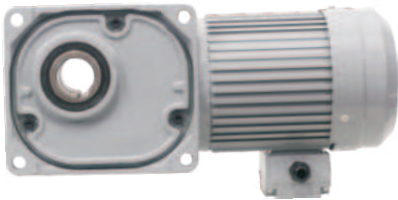
Note: See page 139 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見139頁。



Note: See page 139 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見139頁。

1.5kW

1-PHASE/3-PHASE  
單相/三相



A-FS35 ( 10 ) N- ( 5~20 ) K-X140+1500WS3F

A-FF32 ( 10 ) T- ( 5~20 ) K-X140+1500WS3F

B-FS35 ( 10 ) N- ( 25~120 ) K-X140+1500WS3F

B-FF32 ( 10 ) T- ( 25~120 ) K-X140+1500WS3F

| Power<br>功 率 |                                                 | Rated Voltage<br>電 壓 ( V ) |                                                | Rated Frequency<br>頻 率 ( Hz ) |                     | Rated Currment<br>額定電流 ( A ) |                                        | Rated Speed<br>額定轉速 ( rpm ) |                           | Insucation class<br>絕緣等級 |                            | Protection class<br>防護等級 |                                |      |      |      |
|--------------|-------------------------------------------------|----------------------------|------------------------------------------------|-------------------------------|---------------------|------------------------------|----------------------------------------|-----------------------------|---------------------------|--------------------------|----------------------------|--------------------------|--------------------------------|------|------|------|
| 1.5kW        |                                                 | 380                        |                                                | 50                            |                     | 3.3                          |                                        | 1400                        |                           | B                        |                            | 20 54                    |                                |      |      |      |
|              |                                                 | 220                        |                                                | 50                            |                     | 5.6                          |                                        | 1400                        |                           |                          |                            |                          |                                |      |      |      |
|              |                                                 |                            |                                                |                               |                     |                              |                                        |                             |                           |                          |                            |                          |                                |      |      |      |
| Power<br>功 率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |                            | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |                               | Gear<br>case<br>齒輪箱 | Ratio<br>減速比                 | Reduction<br>ratio<br>實際減速比<br>( 分 數 ) | Speed<br>轉速(rpm)            | Output Torque<br>輸出軸容許轉矩力 |                          | Output O.H.L<br>輸出軸容許O.H.L |                          | Output shaft<br>輸出軸容許軸向<br>力負荷 |      |      |      |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 50Hz                        | 50Hz                      | 50Hz                     | N                          | kgf                      | N                              | kgf  |      |      |
| 1.5kW        | Φ35D<br>(10)                                    |                            | D-12                                           |                               | Φ32d<br>(10)        | D-22                         | A                                      | 1/5                         | 1/5                       | 300                      | 41                         | 4.2                      | 1960                           | 200  | 490  | 50   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/7.5                       | 2/15                      | 200                      | 63                         | 6.4                      | 2250                           | 230  | 441  | 45   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/10                        | 1/10                      | 150                      | 83                         | 8.5                      | 2450                           | 250  | 481  | 49   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/12.5                      | 19/235                    | 120                      | 104                        | 10.6                     | 2600                           | 265  | 647  | 66   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/15                        | 1/15                      | 100                      | 124                        | 12.7                     | 2740                           | 280  | 686  | 70   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/20                        | 1/20                      | 75                       | 166                        | 16.9                     | 2990                           | 305  | 745  | 76   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/25                        | 1/25                      | 60                       | 208                        | 21.2                     | 3190                           | 325  | 794  | 81   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/30                        | 1/30                      | 50                       | 249                        | 25.4                     | 3280                           | 355  | 824  | 84   |
|              |                                                 |                            |                                                |                               |                     |                              | B                                      | 1/40                        | 1/40                      | 37.5                     | 270                        | 27.6                     | 3480                           | 355  | 873  | 89   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/50                        | 19/940                    | 30                       | 270                        | 27.6                     | 3480                           | 355  | 873  | 89   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/60                        | 1/60                      | 25                       | 270                        | 27.6                     | 3480                           | 355  | 873  | 89   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | ※1/80                       | 1/80                      | 18.8                     | 270                        | 27.6                     | 3480                           | 355  | 873  | 89   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | ※1/100                      | 19/1880                   | 15                       | 270                        | 27.6                     | 3480                           | 355  | 873  | 89   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | ※1/120                      | 1/120                     | 12.5                     | 270                        | 27.6                     | 3480                           | 355  | 873  | 89   |
|              | Φ45D<br>(14)                                    |                            | D-13                                           |                               | Φ40d<br>(12)        | D-22                         | A                                      | 1/5                         | 1/5                       | 300                      | 41                         | 4.2                      | 2940                           | 300  | 800  | 82   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/7.5                       | 2/15                      | 200                      | 63                         | 6.4                      | 3330                           | 340  | 900  | 92   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/10                        | 1/10                      | 150                      | 83                         | 8.5                      | 3630                           | 370  | 967  | 99   |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/12.5                      | 19/235                    | 120                      | 104                        | 10.6                     | 3920                           | 400  | 1040 | 106  |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/15                        | 1/15                      | 100                      | 124                        | 12.7                     | 4070                           | 415  | 1067 | 109  |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/20                        | 1/20                      | 75                       | 166                        | 16.9                     | 4460                           | 455  | 1067 | 109  |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/25                        | 1/25                      | 60                       | 208                        | 21.2                     | 4700                           | 480  | 1067 | 109  |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/30                        | 1/30                      | 50                       | 249                        | 25.4                     | 4750                           | 485  | 1067 | 109  |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/40                        | 1/40                      | 37.5                     | 332                        | 33.9                     | 4750                           | 485  | 1067 | 109  |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/50                        | 19/940                    | 30                       | 416                        | 42.4                     | 4750                           | 485  | 1067 | 109  |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | 1/60                        | 1/60                      | 25                       | 498                        | 50.8                     | 4750                           | 485  | 1067 | 109  |
|              |                                                 |                            |                                                |                               |                     |                              |                                        | B                           | 1/80                      | 1/80                     | 18.8                       | 554                      | 56.5                           | 4750 | 485  | 1177 |
|              |                                                 |                            |                                                |                               |                     |                              | 1/100                                  |                             | 19/1880                   | 15                       | 554                        | 56.5                     | 4750                           | 485  | 1177 | 120  |
|              |                                                 |                            |                                                |                               |                     |                              | 1/120                                  |                             | 1/120                     | 12.5                     | 554                        | 56.5                     | 4750                           | 485  | 1177 | 120  |
|              |                                                 |                            |                                                |                               |                     |                              | ※1/160                                 |                             | 1/160                     | 9.4                      | 554                        | 56.5                     | 4750                           | 485  | 1177 | 120  |
|              |                                                 |                            |                                                |                               |                     |                              | ※1/200                                 |                             | 1/200                     | 7.5                      | 554                        | 56.5                     | 4750                           | 485  | 1177 | 120  |
|              |                                                 |                            |                                                |                               |                     |                              | ※1/240                                 | 1/240                       | 6.3                       | 554                      | 56.5                       | 4750                     | 485                            | 1177 | 120  |      |

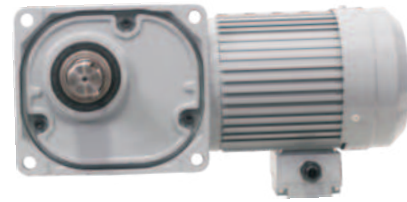
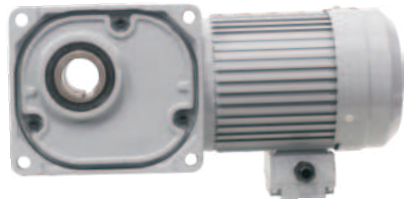
Note: 1. Allow O.H.L to be the value of output shaft end face at 20mm. 2. Output speed = motor/reduction ratio. 3. ※ Marked as torque limited.

( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。 3.※標記為轉矩力受限機型。



1.5kW

1-PHASE/3-PHASE  
單相/三相



A-FS45 (14) N- (5~60) K-X160+1500WS3F

A-FF40 (12) T- (5~60) K-X160+1500WS3F

B-FS45 (14) N- (70~240) K-X160+1500WS3F

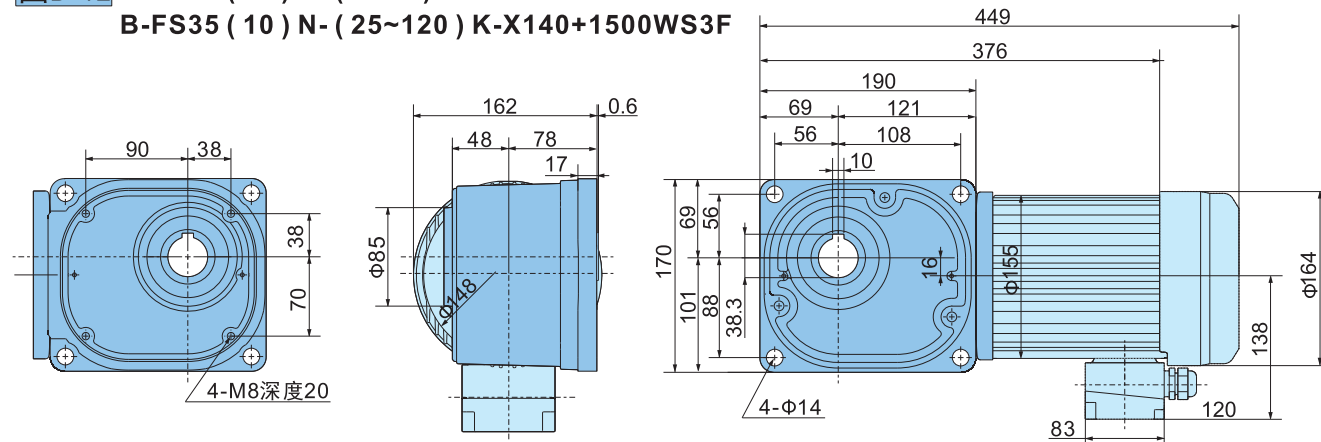
B-FF40 (12) T- (70~240) K-X160+1500WS3F

| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Frequency<br>頻率 (Hz) | Rated Currment<br>額定電流 (A) | Rated Speed<br>額定轉速 (rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|----------------------------|----------------------------|---------------------------|--------------------------|--------------------------|
| 1.5kW       | 380                     | 50                         | 3.3                        | 1400                      | B                        | 20 54                    |
|             | 220                     | 50                         | 5.6                        | 1400                      |                          |                          |

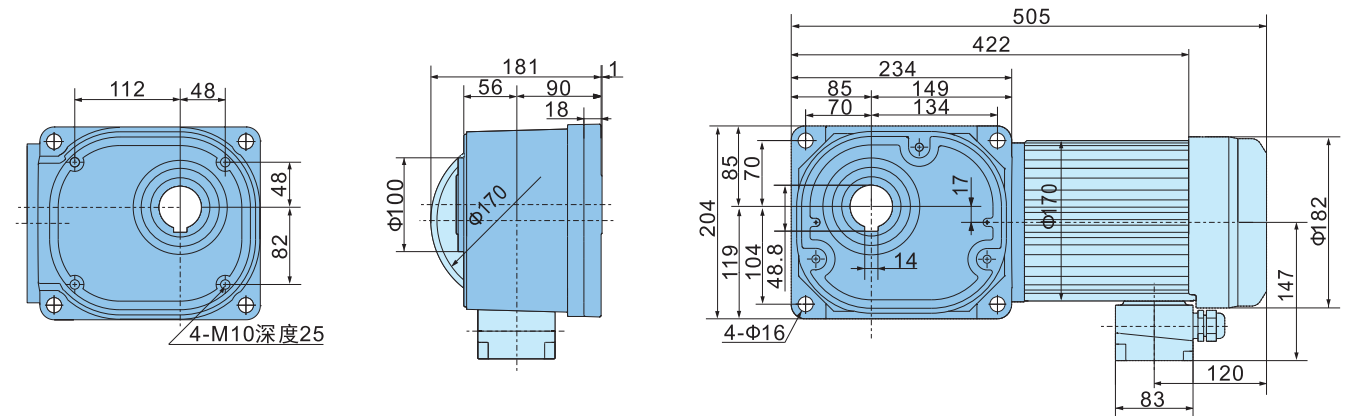
| Power<br>功率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction<br>ratio<br>實際減速比<br>(分數) | Speed<br>轉速(rpm)<br>50Hz | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |      | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|-------------|-------------------------------------------------|------------------------------------------------|---------------------|--------------|-------------------------------------|--------------------------|---------------------------|---------|----------------------------|------|--------------------------------|-----|
|             |                                                 |                                                |                     |              |                                     |                          | N · m                     | kgf · m | N                          | kgf  | N                              | kgf |
| 1.5kW       | Φ55D<br>(16)                                    | D-14                                           | Φ50d<br>(14)        | D-22         | A                                   | 1/5                      | 41                        | 4.2     | 4700                       | 480  | 1177                           | 120 |
|             |                                                 |                                                |                     |              |                                     | 1/7.5                    | 63                        | 6.4     | 5340                       | 545  | 1324                           | 135 |
|             |                                                 |                                                |                     |              |                                     | 1/10                     | 83                        | 8.5     | 5780                       | 590  | 1422                           | 145 |
|             |                                                 |                                                |                     |              |                                     | 1/12.5                   | 104                       | 10.6    | 6130                       | 625  | 1520                           | 155 |
|             |                                                 |                                                |                     |              |                                     | 1/15                     | 124                       | 12.7    | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |                                                |                     |              |                                     | 1/20                     | 166                       | 16.9    | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |                                                |                     |              |                                     | 1/25                     | 208                       | 21.2    | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |                                                |                     |              |                                     | 1/30                     | 249                       | 25.4    | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |                                                |                     |              | B                                   | 1/40                     | 332                       | 33.9    | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |                                                |                     |              |                                     | 1/50                     | 416                       | 42.4    | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |                                                |                     |              |                                     | 1/60                     | 498                       | 50.8    | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |                                                |                     |              |                                     | 1/80                     | 631                       | 64.4    | 6420                       | 655  | 1618                           | 165 |
|             |                                                 |                                                |                     |              |                                     | 1/100                    | 789                       | 80.5    | 6420                       | 655  | 1618                           | 165 |
|             |                                                 |                                                |                     |              |                                     | 1/120                    | 947                       | 96.6    | 7500                       | 765  | 1863                           | 190 |
|             |                                                 |                                                |                     |              |                                     | 1/160                    | 1264                      | 129     | 8330                       | 850  | 2059                           | 210 |
|             |                                                 |                                                |                     |              |                                     | 1/200                    | 1264                      | 129     | 9020                       | 920  | 2256                           | 230 |
|             |                                                 |                                                |                     |              |                                     | 1/240                    | 1264                      | 129     | 9800                       | 1000 | 2452                           | 250 |

Note: 1. Allow O.H.L to be the value of output shaft end face at 20mm. (注) 1. 容許O.H.L為輸出軸端面20mm位置的數值。  
2. Output speed = motor/reduction ratio. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ Marked as torque limited. 3. ※ 標記為轉矩力受限機型。

圖D-12 A-FS35 (10) N- (5~20) K-X140+1500WS3F  
B-FS35 (10) N- (25~120) K-X140+1500WS3F

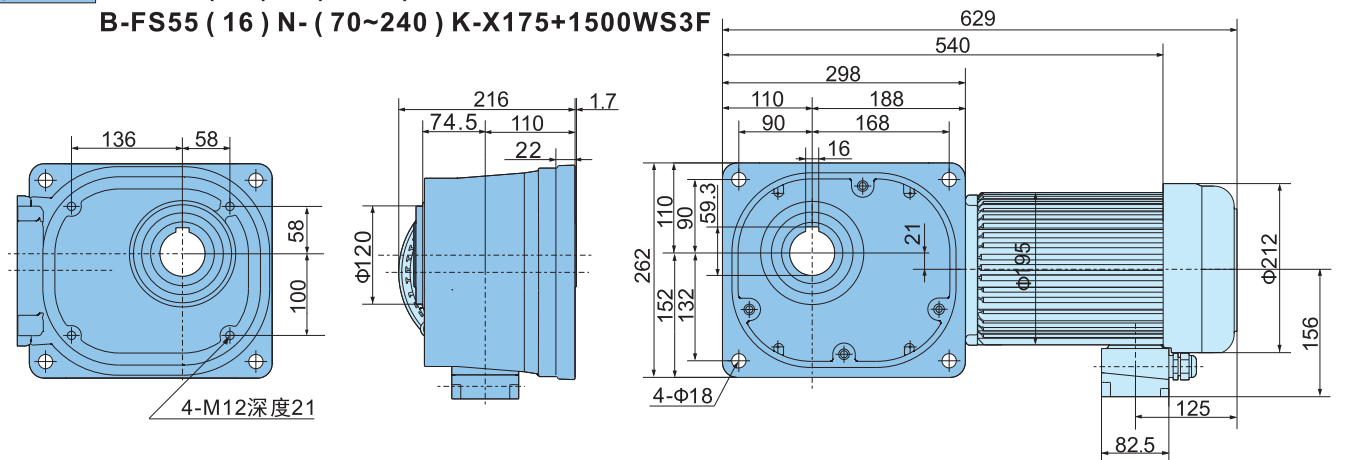


圖D-13 A-FS45 (14) N- (5~60) K-X160+1500WS3F  
B-FS45 (14) N- (70~240) K-X160+1500WS3F



Note: See page 139 for detailed dimensions of output shaft.  
(注)：輸出軸部詳細尺寸見139頁。

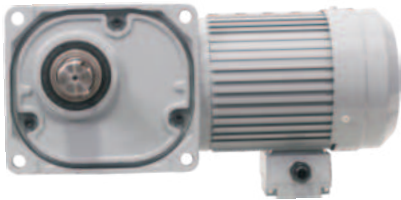
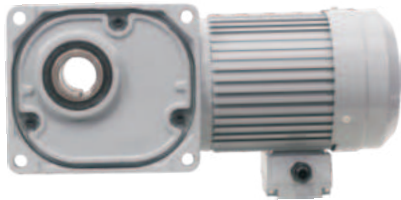
圖D-14 A-FS55 (16) N- (5~60) K-X175+1500WS3F  
B-FS55 (16) N- (70~240) K-X175+1500WS3F



Note: See page 139 for detailed dimensions of output shaft.  
(注)：輸出軸部詳細尺寸見139頁。

2.2kW

1-PHASE/3-PHASE  
單相/三相



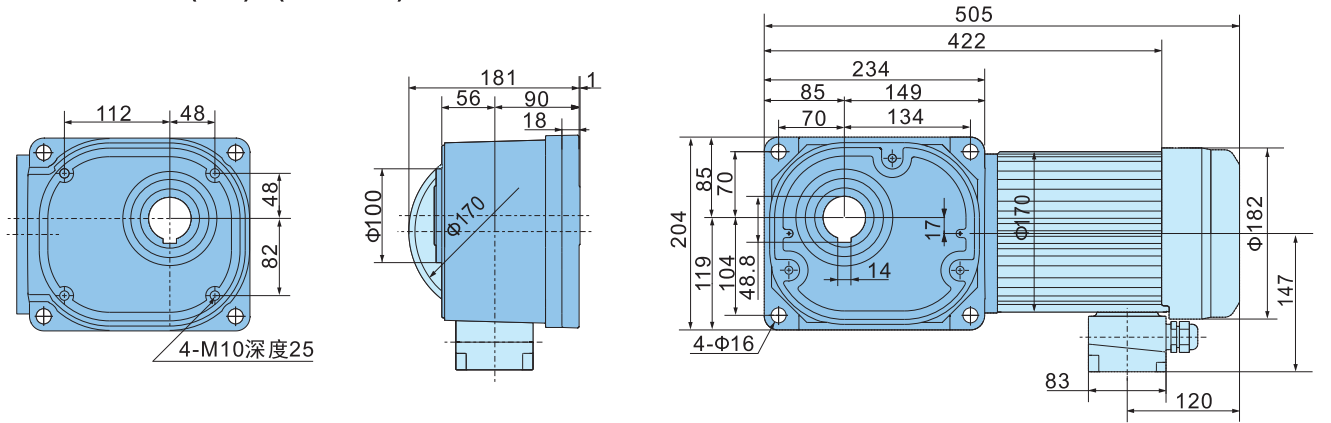
A-FS45 ( 14 ) N- ( 5~20 ) K-X160+2200WS3F      A-FF40 ( 12 ) T- ( 5~20 ) K-X160+2200WS3F  
B-FS45 ( 14 ) N- ( 25~120 ) K-X160+2200WS3F      B-FF40 ( 12 ) T- ( 25~120 ) K-X160+2200WS3F

| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 2.2kW       | 380                       | 50                           | 4.6                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 8.0                          | 1400                        |                          |                          |

| Power<br>功率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |       | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |      | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction<br>ratio<br>實際減速比<br>( 分數 ) | Speed | Output Torque<br>輸出軸容許轉矩力 |      | Output O.H.L<br>輸出軸容許O.H.L |      | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|-------------|-------------------------------------------------|-------|------------------------------------------------|------|---------------------|--------------|---------------------------------------|-------|---------------------------|------|----------------------------|------|--------------------------------|-----|
|             | 轉速(rpm)                                         | N・m   | kgf・m                                          | N    |                     |              |                                       | kgf   | N                         | kgf  |                            |      |                                |     |
|             |                                                 |       |                                                |      |                     |              |                                       |       |                           |      | 50Hz                       | 50Hz | 50Hz                           | N   |
| 2.2kW       | Φ45D<br>(14)                                    | D-15  | Φ40d<br>(12)                                   | D-22 | A                   | 1/5          | 1/5                                   | 300   | 61                        | 6.2  | 2940                       | 300  | 800                            | 82  |
|             |                                                 |       |                                                |      |                     | 1/7.5        | 2/15                                  | 200   | 91                        | 9.5  | 3330                       | 340  | 900                            | 92  |
|             |                                                 |       |                                                |      |                     | 1/10         | 1/10                                  | 150   | 122                       | 12.4 | 3630                       | 370  | 967                            | 99  |
|             |                                                 |       |                                                |      |                     | 1/12.5       | 19/235                                | 120   | 152                       | 15.5 | 3920                       | 400  | 1040                           | 106 |
|             |                                                 |       |                                                |      |                     | 1/15         | 1/15                                  | 100   | 182                       | 18.6 | 4070                       | 415  | 1067                           | 109 |
|             |                                                 |       |                                                |      |                     | 1/20         | 1/20                                  | 75    | 244                       | 24.9 | 4460                       | 455  | 1067                           | 109 |
|             |                                                 |       |                                                |      |                     | 1/25         | 1/25                                  | 60    | 305                       | 31.1 | 4700                       | 480  | 1067                           | 109 |
|             |                                                 |       |                                                |      | 1/30                | 1/30         | 50                                    | 366   | 37.3                      | 4750 | 485                        | 1067 | 109                            |     |
|             |                                                 |       |                                                |      | B                   | 1/40         | 1/40                                  | 37.5  | 487                       | 49.7 | 4750                       | 485  | 1067                           | 109 |
|             |                                                 |       |                                                |      |                     | 1/50         | 19/940                                | 30    | 554                       | 56.5 | 4750                       | 485  | 1067                           | 109 |
|             |                                                 |       |                                                |      |                     | 1/60         | 1/60                                  | 25    | 554                       | 56.5 | 4750                       | 485  | 1067                           | 109 |
|             |                                                 |       |                                                |      |                     | ※1/80        | 1/80                                  | 18.8  | 554                       | 56.5 | 4750                       | 485  | 1177                           | 120 |
|             | ※1/100                                          | 1/100 | 15                                             | 554  |                     | 56.5         | 4750                                  | 485   | 1177                      | 120  |                            |      |                                |     |
|             | ※1/120                                          | 1/120 | 12.5                                           | 554  | 56.5                | 4750         | 485                                   | 1177  | 120                       |      |                            |      |                                |     |
|             | Φ55D<br>(16)                                    | D-16  | Φ50d<br>(14)                                   | D-22 | A                   | 1/5          | 1/5                                   | 300   | 63.7                      | 6.5  | 4700                       | 480  | 1177                           | 120 |
|             |                                                 |       |                                                |      |                     | 1/7.5        | 2/15                                  | 200   | 95.6                      | 9.7  | 5340                       | 545  | 1324                           | 135 |
|             |                                                 |       |                                                |      |                     | 1/10         | 1/10                                  | 150   | 127.5                     | 13   | 5780                       | 590  | 1422                           | 145 |
|             |                                                 |       |                                                |      |                     | 1/12.5       | 4/49                                  | 120   | 159                       | 16.2 | 6130                       | 625  | 1520                           | 155 |
|             |                                                 |       |                                                |      |                     | 1/15         | 1/15                                  | 100   | 191                       | 19.4 | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |       |                                                |      |                     | 1/20         | 1/20                                  | 75    | 251.2                     | 25.6 | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |       |                                                |      |                     | 1/25         | 1/25                                  | 60    | 319                       | 32.5 | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |       |                                                |      |                     | 1/30         | 1/30                                  | 50    | 382                       | 39   | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |       |                                                |      |                     | 1/40         | 1/40                                  | 37.5  | 503                       | 51   | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |       |                                                |      |                     | 1/50         | 1/49                                  | 30    | 631                       | 64   | 6320                       | 645  | 1569                           | 160 |
|             |                                                 |       |                                                |      | 1/60                | 1/60         | 25                                    | 765   | 78                        | 6320 | 645                        | 1569 | 160                            |     |
|             |                                                 |       |                                                |      | B                   | 1/80         | 1/80                                  | 18.8  | 1020                      | 104  | 6420                       | 655  | 1618                           | 165 |
|             |                                                 |       |                                                |      |                     | 1/100        | 1/100                                 | 15    | 1030                      | 105  | 6420                       | 655  | 1618                           | 165 |
|             |                                                 |       |                                                |      |                     | 1/120        | 1/120                                 | 12.5  | 1030                      | 105  | 7500                       | 765  | 1863                           | 190 |
|             |                                                 |       |                                                |      |                     | ※1/160       | 1/160                                 | 9.4   | 1030                      | 105  | 7500                       | 765  | 1863                           | 190 |
|             |                                                 |       |                                                |      |                     | ※1/200       | 1/200                                 | 7.5   | 1030                      | 105  | 7500                       | 765  | 1863                           | 190 |
|             |                                                 |       |                                                |      |                     | ※1/240       | 1/240                                 | 6.3   | 1030                      | 105  | 7500                       | 765  | 1863                           | 190 |

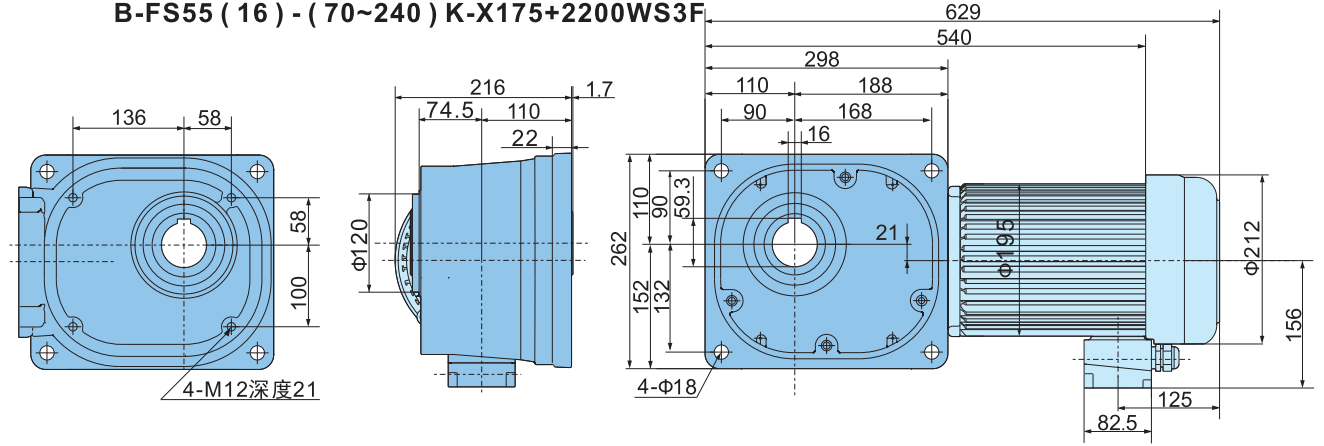
Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm. ( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.※ Marked as torque limited. 3.※標記為轉矩力受限機型。

圖D-15 A-FS45 ( 14 ) - ( 5~20 ) K-X160+2200WS3F  
B-FS45 ( 14 ) - ( 25~120 ) K-X160+2200WS3F



Note: See page 139 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見139頁。

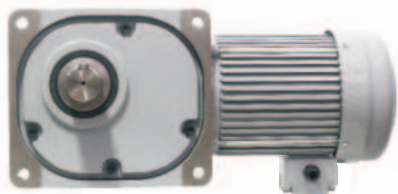
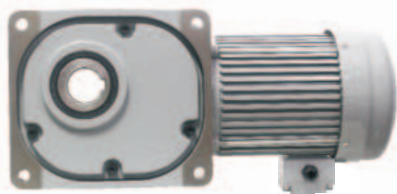
圖D-16 A-FS55 ( 16 ) - ( 5~60 ) K-X175+2200WS3F  
B-FS55 ( 16 ) - ( 70~240 ) K-X175+2200WS3F



Note: See page 139 for detailed dimensions of output shaft.  
( 注 ) : 輸出軸部詳細尺寸見139頁。



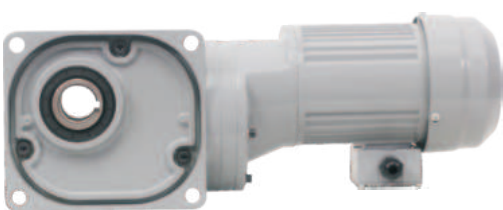
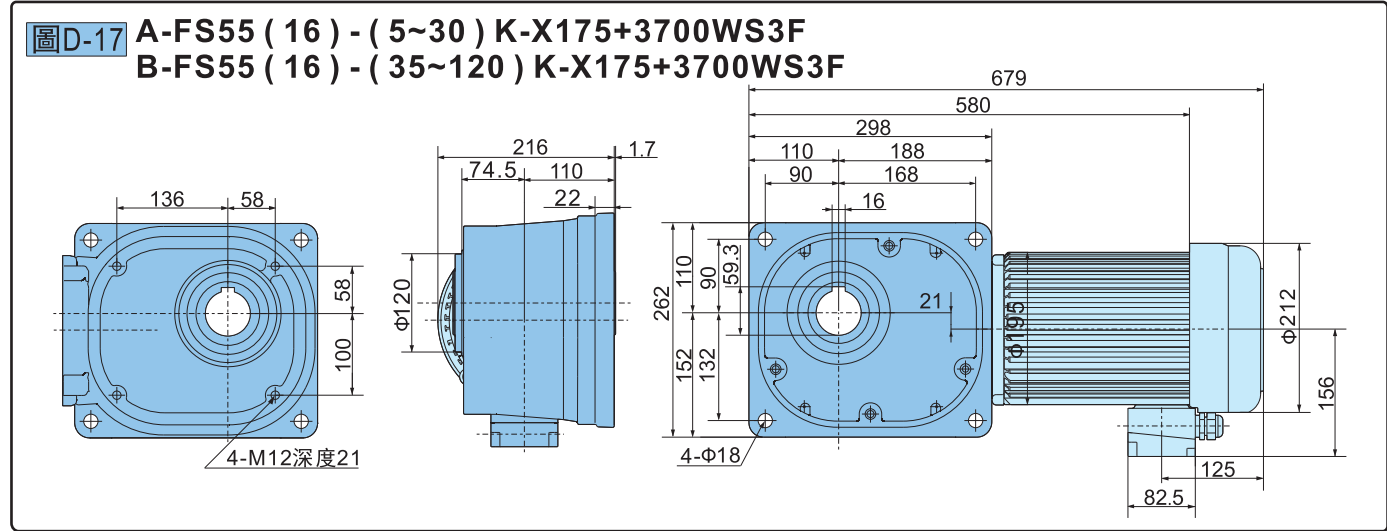
3.7kW  
1-PHASE/3-PHASE  
單相/三相



A-FS55 ( 16 ) N- ( 5~30 ) K-X175+3700WS3F      A-FF50 ( 14 ) T- ( 5~30 ) K-X175+3700WS3F  
B-FS55 ( 16 ) N- ( 35~120 ) K-X175+3700WS3F      B-FF50 ( 14 ) T- ( 35~120 ) K-X175+3700WS3F

| Power<br>功率 |                                                 | Rated Voltage<br>電壓 ( V ) |                                                | Rated Frequency<br>頻率 ( Hz ) |                     | Rated Currment<br>額定電流 ( A ) |                                       | Rated Speed<br>額定轉速 ( rpm ) |                           | Insucation class<br>絕緣等級 |                            | Protection class<br>防護等級 |                                |     |
|-------------|-------------------------------------------------|---------------------------|------------------------------------------------|------------------------------|---------------------|------------------------------|---------------------------------------|-----------------------------|---------------------------|--------------------------|----------------------------|--------------------------|--------------------------------|-----|
| 3.7kW       |                                                 | 380                       |                                                | 50                           |                     | 7.5                          |                                       | 1400                        |                           | B                        |                            | 20 54                    |                                |     |
|             |                                                 | 220                       |                                                | 50                           |                     | 10.8                         |                                       | 1400                        |                           |                          |                            |                          |                                |     |
|             |                                                 |                           |                                                |                              |                     |                              |                                       |                             |                           |                          |                            |                          |                                |     |
| Power<br>功率 | Hollow shaft<br>dimension<br>drawing<br>中空軸 尺寸圖 |                           | Solid shaft<br>dimension<br>drawing<br>實心軸 尺寸圖 |                              | Gear<br>case<br>齒輪箱 | Ratio<br>減速比                 | Reduction<br>ratio<br>實際減速比<br>( 分數 ) | Speed<br>轉速(rpm)            | Output Torque<br>輸出軸容許轉矩力 |                          | Output O.H.L<br>輸出軸容許O.H.L |                          | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|             |                                                 |                           |                                                |                              |                     |                              |                                       |                             | N · m                     | kgf · m                  |                            |                          |                                |     |
|             | 50Hz                                            | 50Hz                      | 50Hz                                           | N                            |                     |                              |                                       | kgf                         | N                         | kgf                      |                            |                          |                                |     |
| 3.7kW       | Φ55D<br>(16)                                    | D-17                      | Φ50d<br>(14)                                   | D-22                         | A                   | 1/5                          | 1/5                                   | 300                         | 102                       | 10.4                     | 4700                       | 480                      | 1177                           | 120 |
|             |                                                 |                           |                                                |                              |                     | 1/7.5                        | 2/15                                  | 200                         | 154                       | 15.7                     | 5340                       | 545                      | 1324                           | 135 |
|             |                                                 |                           |                                                |                              |                     | 1/10                         | 1/10                                  | 150                         | 205                       | 21                       | 5780                       | 590                      | 1422                           | 145 |
|             |                                                 |                           |                                                |                              |                     | 1/12.5                       | 4/49                                  | 120                         | 256                       | 26                       | 6130                       | 625                      | 1520                           | 155 |
|             |                                                 |                           |                                                |                              |                     | 1/15                         | 1/15                                  | 30                          | 307                       | 31.4                     | 6320                       | 645                      | 1569                           | 160 |
|             |                                                 |                           |                                                |                              |                     | 1/20                         | 1/20                                  | 75                          | 410                       | 41.8                     | 6320                       | 645                      | 1569                           | 160 |
|             |                                                 |                           |                                                |                              |                     | 1/25                         | 1/25                                  | 60                          | 512                       | 52.3                     | 6320                       | 645                      | 1569                           | 160 |
|             |                                                 |                           |                                                |                              | B                   | 1/30                         | 1/30                                  | 50                          | 615                       | 62.7                     | 6320                       | 645                      | 1569                           | 160 |
|             |                                                 |                           |                                                |                              |                     | 1/40                         | 1/40                                  | 37.5                        | 820                       | 83.7                     | 6320                       | 645                      | 1569                           | 160 |
|             |                                                 |                           |                                                |                              |                     | 1/50                         | 1/49                                  | 30                          | 1025                      | 104.6                    | 6320                       | 645                      | 1569                           | 160 |
|             |                                                 |                           |                                                |                              |                     | 1/60                         | 1/60                                  | 25                          | 1230                      | 25.5                     | 6320                       | 645                      | 1569                           | 160 |
|             |                                                 |                           |                                                |                              |                     | ※1/80                        | 1/80                                  | 18.8                        | 1264                      | 129                      | 6320                       | 645                      | 1569                           | 160 |
|             |                                                 |                           |                                                |                              |                     | ※1/100                       | 1/100                                 | 15                          | 1264                      | 129                      | 6320                       | 645                      | 1569                           | 160 |
|             |                                                 |                           |                                                |                              |                     | ※1/120                       | 1/120                                 | 12.5                        | 1264                      | 129                      | 6320                       | 645                      | 1569                           | 160 |

Note: 1.Allow O.H.L to be the value of output shaft ( 注 ) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
end face at 20mm. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
2.Output speed = motor/reduction ratio. 3.\*標記為轉矩力受限機型。  
3.\* Marked as torque limited.



FS35 ( 10 ) NM25- ( 250~2400 ) K  
-X101+100WS3F      FF32 ( 10 ) TM25- ( 250~2400 ) K  
-X101+100WS3F

| Power<br>功率 (kW) | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|------------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.1              | 380                       | 50                           | 0.31                         | 1400                        | B                        | 20 54                    |
|                  | 220                       | 50                           | 0.52                         | 1400                        |                          |                          |
| 0.2              | 380                       | 50                           | 0.56                         | 1400                        |                          |                          |
|                  | 220                       | 50                           | 0.92                         | 1400                        |                          |                          |
| 0.4              | 380                       | 50                           | 1.0                          | 1400                        |                          |                          |
|                  | 220                       | 50                           | 1.8                          | 1400                        |                          |                          |
| 0.75             | 380                       | 50                           | 1.8                          | 1400                        |                          |                          |
|                  | 220                       | 50                           | 3.2                          | 1400                        |                          |                          |

| Power<br>功 率 | Dimension drawing<br>of Hollow shaft<br>中空軸 外形圖 |      | Dimension drawing<br>of Solid shaft<br>實心軸軸部 尺寸圖 |      | Ratio<br>減速比 | Reduction<br>ratio<br>實際減速比<br>( 分 數 ) | Speed<br>轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|--------------|-------------------------------------------------|------|--------------------------------------------------|------|--------------|----------------------------------------|------------------|---------------------------|---------|----------------------------|-----|--------------------------------|-----|
|              |                                                 |      |                                                  |      |              |                                        | 50Hz             | N · m                     | kgf · m | N                          | kgf | N                              | kgf |
| 0.1kW        | Φ35D<br>(10)                                    | D-18 | φ 32d<br>(10)                                    | D-22 | 1/250        | 29/7200                                | 6                | 145                       | 14.8    | 1960                       | 200 | 490                            | 50  |
|              |                                                 |      |                                                  |      | 1/300        | 1/300                                  | 5                | 174                       | 17.7    | 2250                       | 230 | 441                            | 45  |
|              |                                                 |      |                                                  |      | 1/375        | 23/860                                 | 4                | 217                       | 22      | 2450                       | 250 | 481                            | 49  |
|              |                                                 |      |                                                  |      | 1/400        | 1/400                                  | 3.8              | 232                       | 23.7    | 2600                       | 265 | 647                            | 66  |
|              |                                                 |      |                                                  |      | 1/500        | 11/5400                                | 3                | 290                       | 29.6    | 2740                       | 280 | 686                            | 70  |
|              |                                                 |      |                                                  |      | 1/600        | 9/5500                                 | 2.5              | 348                       | 35.5    | 2990                       | 305 | 745                            | 76  |
|              |                                                 |      |                                                  |      | 1/800        | 1/800                                  | 1.9              | 372                       | 38      | 3190                       | 325 | 794                            | 81  |
|              |                                                 |      |                                                  |      | 1/1000       | 19/18400                               | 1.5              | 372                       | 38      | 3280                       | 335 | 824                            | 84  |
|              |                                                 |      |                                                  |      | 1/1200       | 2/2450                                 | 1.3              | 372                       | 38      | 3280                       | 335 | 824                            | 84  |
|              |                                                 |      |                                                  |      | 1/1600       | 1/1600                                 | 0.9              | 372                       | 38      | 3280                       | 335 | 824                            | 84  |
|              |                                                 |      |                                                  |      | 1/2400       | 1/2400                                 | 0.6              | 372                       | 38      | 3280                       | 335 | 824                            | 84  |
| 0.2kW        | Φ35D<br>(10)                                    | D-19 | φ 32d<br>(10)                                    | D-22 | 1/150        | 1/150                                  | 9.3              | 174                       | 17.7    | 1750                       | 179 | 490                            | 50  |
|              |                                                 |      |                                                  |      | 1/250        | 29/7200                                | 6                | 290                       | 29.5    | 1960                       | 200 | 490                            | 50  |
|              |                                                 |      |                                                  |      | 1/300        | 1/300                                  | 5                | 348                       | 43.5    | 2250                       | 230 | 441                            | 45  |
|              |                                                 |      |                                                  |      | 1/375        | 23/8600                                | 4                | 372                       | 38      | 2450                       | 250 | 481                            | 49  |
|              |                                                 |      |                                                  |      | 1/400        | 1/400                                  | 3.8              | 372                       | 38      | 2600                       | 265 | 647                            | 66  |
|              |                                                 |      |                                                  |      | 1/500        | 11/5400                                | 3                | 372                       | 38      | 2600                       | 265 | 647                            | 66  |
|              |                                                 |      |                                                  |      | 1/1200       | 1/1200                                 | 1.3              | 372                       | 38      | 2600                       | 265 | 647                            | 66  |
| 0.4kW        | Φ45D<br>(14)                                    | D-20 | φ 40d<br>(12)                                    | D-22 | 1/150        | 1/150                                  | 9.3              | 348                       | 43.5    | 2250                       | 230 | 613                            | 63  |
|              |                                                 |      |                                                  |      | 1/250        | 1/250                                  | 6                | 580                       | 59      | 2940                       | 300 | 735                            | 75  |
|              |                                                 |      |                                                  |      | 1/300        | 1/300                                  | 5                | 696                       | 71      | 3330                       | 340 | 834                            | 85  |
|              |                                                 |      |                                                  |      | 1/400        | 1/400                                  | 3.8              | 713                       | 72.8    | 3630                       | 370 | 912                            | 93  |
|              |                                                 |      |                                                  |      | 1/500        | 19/9400                                | 3                | 713                       | 72.8    | 3920                       | 400 | 980                            | 100 |
|              |                                                 |      |                                                  |      | 1/600        | 1/600                                  | 2.5              | 713                       | 72.8    | 4070                       | 415 | 1030                           | 105 |
|              |                                                 |      |                                                  |      | 1/800        | 1/800                                  | 1.9              | 713                       | 72.8    | 4070                       | 415 | 1030                           | 105 |
|              |                                                 |      |                                                  |      | 1/1000       | 19/18800                               | 1.5              | 713                       | 72.8    | 4070                       | 415 | 1030                           | 105 |
|              |                                                 |      |                                                  |      | 1/1200       | 1/1200                                 | 1.3              | 713                       | 72.8    | 4070                       | 415 | 1030                           | 105 |
|              |                                                 |      |                                                  |      | 1/1600       | 1/1600                                 | 0.9              | 713                       | 72.8    | 4070                       | 415 | 1030                           | 105 |

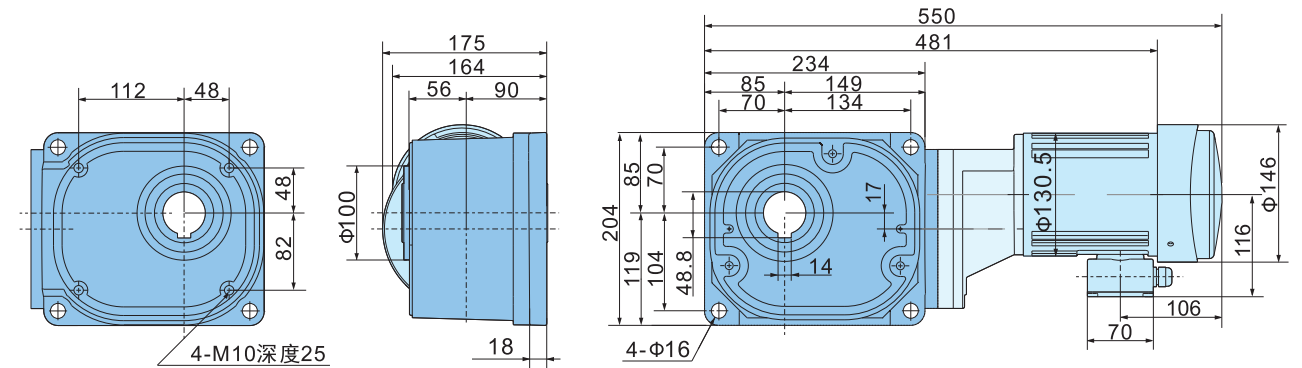


| Power<br>功率 | Dimension drawing<br>of Hollow shaft<br>中空軸 外形圖 |      | Dimension drawing<br>of Solid shaft<br>實心軸軸部 尺寸圖 |      | Ratio<br>減速比 | Reduction<br>ratio<br>實際減速比<br>( 分數 ) | Speed<br>轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |      | Output O.H.L<br>輸出軸容許O.H.L |      | Output shaft<br>輸出軸容許軸向<br>力負荷 |     |
|-------------|-------------------------------------------------|------|--------------------------------------------------|------|--------------|---------------------------------------|------------------|---------------------------|------|----------------------------|------|--------------------------------|-----|
|             |                                                 |      |                                                  |      |              |                                       | N · m            | kgf · m                   |      |                            |      |                                |     |
|             |                                                 |      |                                                  |      |              |                                       | 50Hz             | 50Hz                      | 50Hz | N                          | kgf  | N                              | kgf |
| 0.75<br>kW  | Φ55D<br>(16)                                    | D-21 | Φ50d<br>(14)                                     | D-22 | 1/250        | 1/250                                 | 6                | 1030                      | 105  | 9800                       | 1000 | 2452                           | 250 |
|             |                                                 |      |                                                  |      | 1/300        | 1/300                                 | 5                | 1030                      | 105  | 9800                       | 1000 | 2452                           | 250 |
|             |                                                 |      |                                                  |      | 1/400        | 1/400                                 | 3.8              | 1030                      | 105  | 9800                       | 1000 | 2452                           | 250 |
|             |                                                 |      |                                                  |      | 1/500        | 1/490                                 | 3                | 1030                      | 105  | 9800                       | 1000 | 2452                           | 250 |
|             |                                                 |      |                                                  |      | 1/600        | 1/600                                 | 2.5              | 1030                      | 105  | 9800                       | 1000 | 2452                           | 250 |
|             |                                                 |      |                                                  |      | 1/800        | 1/800                                 | 1.9              | 1030                      | 105  | 9800                       | 1000 | 2452                           | 250 |
|             |                                                 |      |                                                  |      | 1/1000       | 1/980                                 | 1.5              | 1030                      | 105  | 9800                       | 1000 | 2452                           | 250 |
|             |                                                 |      |                                                  |      | 1/1200       | 1/1200                                | 1.3              | 1030                      | 105  | 9800                       | 1000 | 2452                           | 250 |
|             |                                                 |      |                                                  |      | 1/1600       | 1/1600                                | 0.9              | 1030                      | 105  | 9800                       | 1000 | 2452                           | 250 |

Note: 1. Allow O.H.L to be the value of output shaft end face at 20mm.  
2. Output speed = motor/reduction ration.  
3. ※ Marked as torque limited.

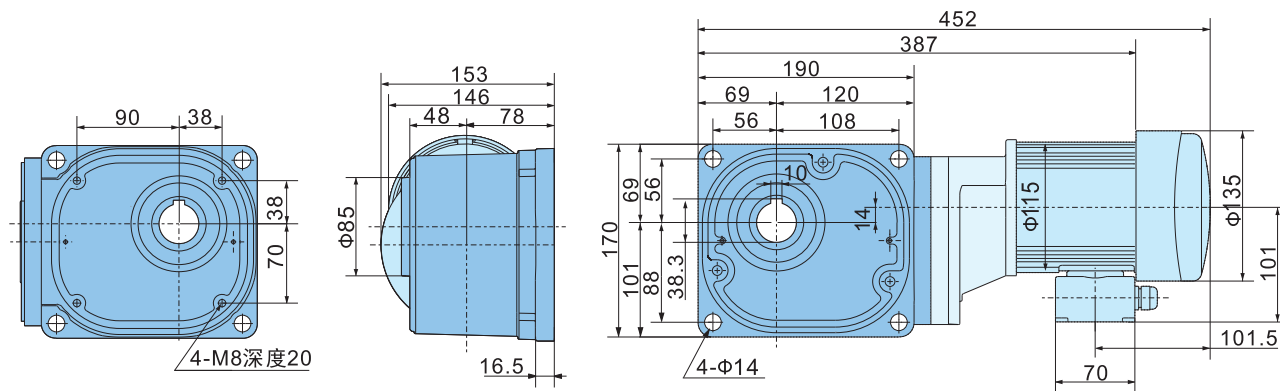
(注) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.※標記為轉矩力受限機型。

圖D-20 FS45 ( 14 ) NM30- ( 150~1200 ) K-X120+400WS3F



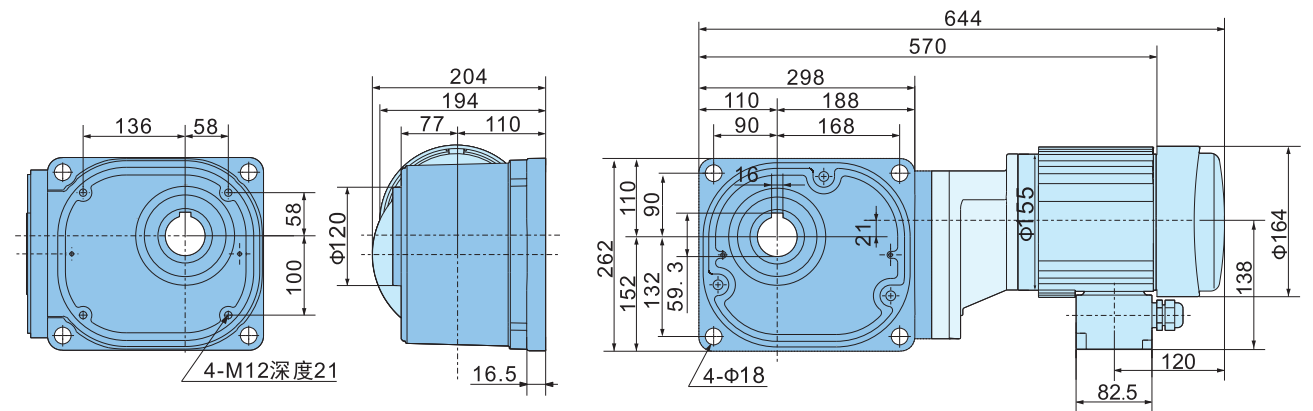
Note: See page 139 for detailed dimensions of output shaft.  
(注)：輸出軸部詳細尺寸見139頁。

圖D-18 FS35 ( 10 ) NM25- ( 250~2400 ) K-X101+100WS3F



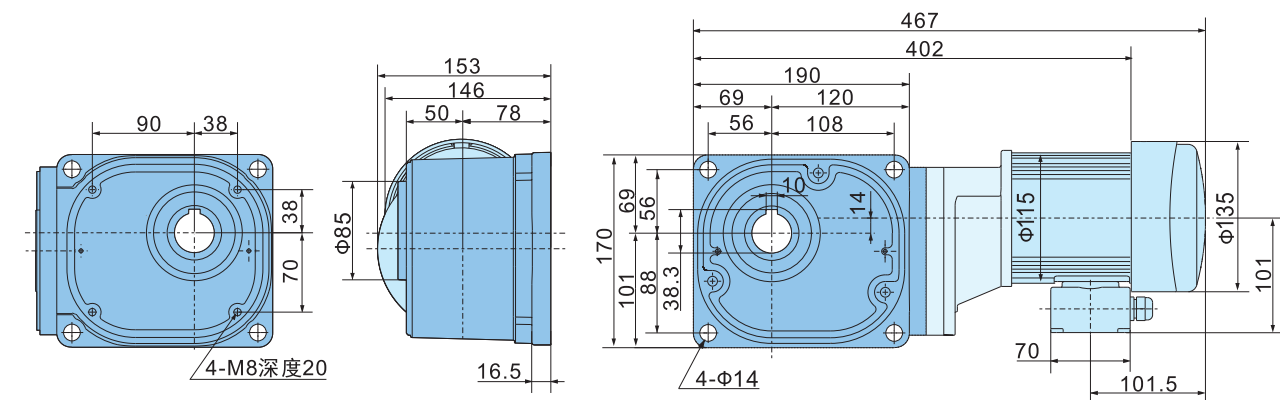
Note: See page 139 for detailed dimensions of output shaft.  
(注)：輸出軸部詳細尺寸見139頁。

圖D-21 FS55 ( 16 ) NM35- ( 150~1200 ) K-X140+750WS3F



Note: See page 139 for detailed dimensions of output shaft.  
(注)：輸出軸部詳細尺寸見139頁。

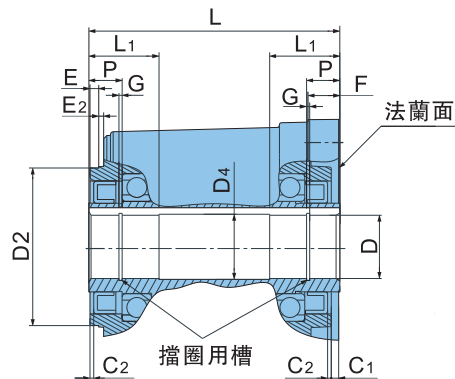
圖D-19 FS35 ( 10 ) NM25- ( 150~1200 ) K-X101+200WS3F



PRODUCT STRUCTURE DIAGRAM 產品結構圖

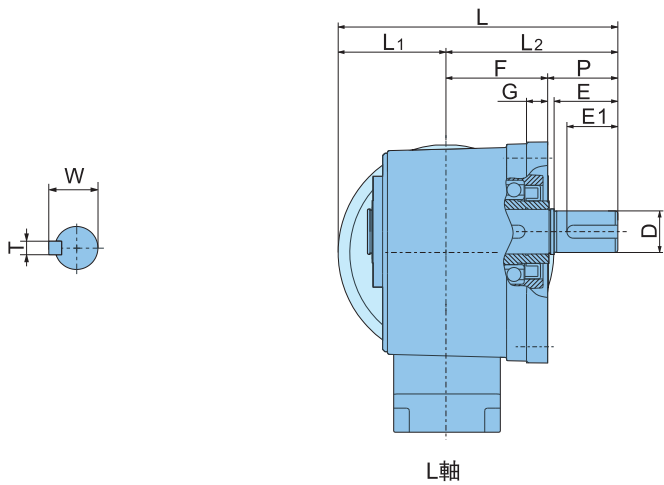
特性表、尺寸圖  
Feature table, size diagram

Hollow shaft details 中空軸部詳細



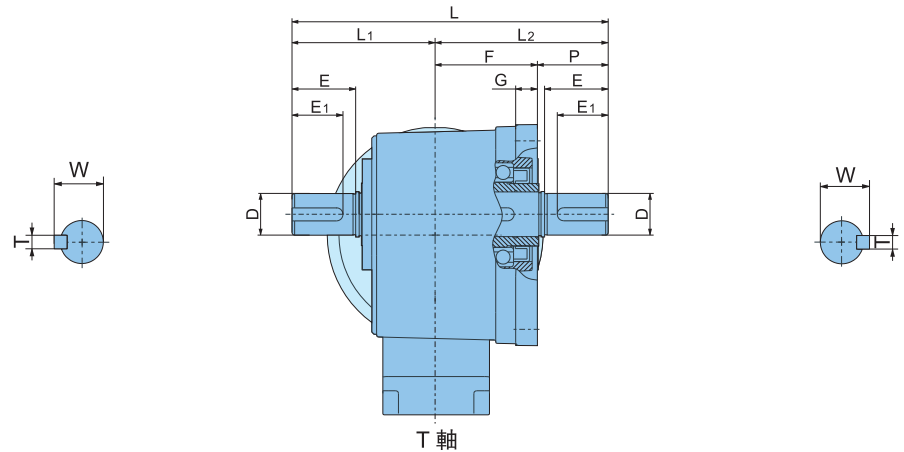
| D<br>(H8) | W    | T  | P  | G   | L   | L1 | E   | E2  | F    | D2   | D4  | C1  | C2 |
|-----------|------|----|----|-----|-----|----|-----|-----|------|------|-----|-----|----|
| Φ25       | 28.3 | 8  | 14 | 1.3 | 112 | 30 | 6   | 0   | 12.5 | Φ 66 | Φ26 | 8   | 1  |
| Φ30       | 33.3 | 8  | 17 | 1.3 | 129 | 33 | 7   | 0   | 14   | Φ 75 | Φ31 | 6.6 | 1  |
| Φ35       | 38.3 | 10 | 20 | 1.7 | 136 | 38 | 7   | 0   | 17   | Φ 85 | Φ36 | 5   | 1  |
| Φ45       | 48.8 | 14 | 26 | 1.7 | 155 | 50 | 6   | 0   | 18   | Φ100 | Φ46 | 5   | 1  |
| Φ55       | 59.3 | 16 | 32 | 2.2 | 199 | 61 | 8.2 | 2.1 | 23.5 | Φ120 | Φ57 | 6   | 1  |

圖D-22-1 Solid shaft details 實心軸部詳細



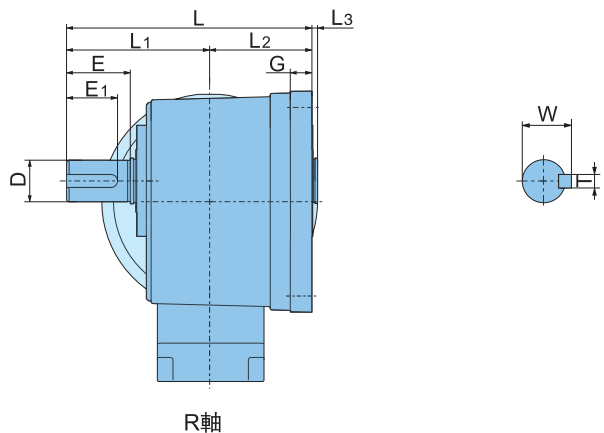
| D<br>(h6) | W    | T  | E  | E1 | P  | F   | G    | L     | L1   | L2  |
|-----------|------|----|----|----|----|-----|------|-------|------|-----|
| Φ22       | 24.5 | 6  | 34 | 32 | 36 | 63  | 12.5 | 167   | 68   | 99  |
| Φ28       | 31   | 8  | 37 | 32 | 51 | 68  | 14   | 184.5 | 72.5 | 112 |
| Φ32       | 35   | 10 | 49 | 45 | 54 | 78  | 17   | 215   | 84   | 132 |
| Φ40       | 43   | 12 | 60 | 56 | 64 | 90  | 18   | 245   | 91   | 154 |
| Φ50       | 53.5 | 14 | 69 | 63 | 75 | 110 | 23.5 | 299   | 106  | 193 |

圖D-22-2 Solid shaft details 實心軸部詳細



| D<br>(h6) | W    | T  | E  | E1 | P  | F   | G    | L   | L1  | L2  |
|-----------|------|----|----|----|----|-----|------|-----|-----|-----|
| Φ22       | 24.5 | 6  | 34 | 32 | 36 | 63  | 12.5 | 186 | 87  | 99  |
| Φ28       | 31   | 8  | 37 | 32 | 51 | 68  | 14   | 212 | 100 | 112 |
| Φ32       | 35   | 10 | 49 | 45 | 54 | 78  | 17   | 243 | 112 | 132 |
| Φ40       | 43   | 12 | 60 | 56 | 64 | 90  | 18   | 282 | 127 | 154 |
| Φ50       | 53.5 | 14 | 69 | 63 | 75 | 110 | 23.5 | 347 | 154 | 193 |

圖D-22-3 Solid shaft details 實心軸部詳細



| D<br>(h6) | W    | T  | E  | E1 | L     | L1  | L2  | L3 | G    |
|-----------|------|----|----|----|-------|-----|-----|----|------|
| Φ22       | 24.5 | 6  | 34 | 32 | 151   | 87  | 99  | 3  | 12.5 |
| Φ28       | 31   | 8  | 37 | 32 | 184.5 | 100 | 112 | 3  | 14   |
| Φ32       | 35   | 10 | 49 | 45 | 215   | 112 | 131 | 3  | 17   |
| Φ40       | 43   | 12 | 60 | 56 | 223   | 133 | 90  | 4  | 18   |
| Φ50       | 53.5 | 14 | 69 | 63 | 277   | 154 | 110 | 6  | 22   |

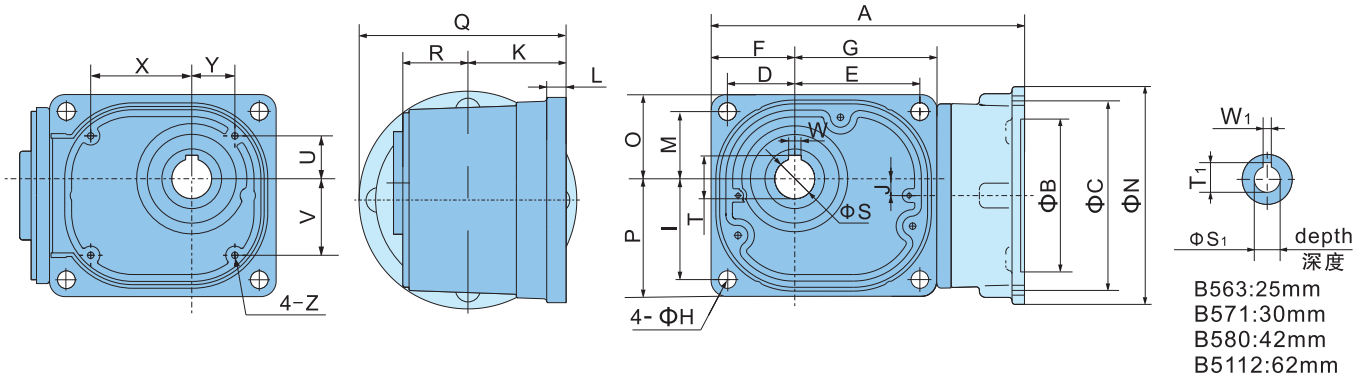
特性表、尺寸圖  
Feature table, size diagram

IEC INPUT-TYPE REDUCER  
IEC輸入型減速器



FS35 ( 10 ) N- ( 5~120 ) K+B580+750W      FF32 ( 10 ) T- ( 5~120 ) K+B580+750W

IEC INPUT-TYPE IEC輸入型減速器



INPUT BORE 輸入孔尺寸

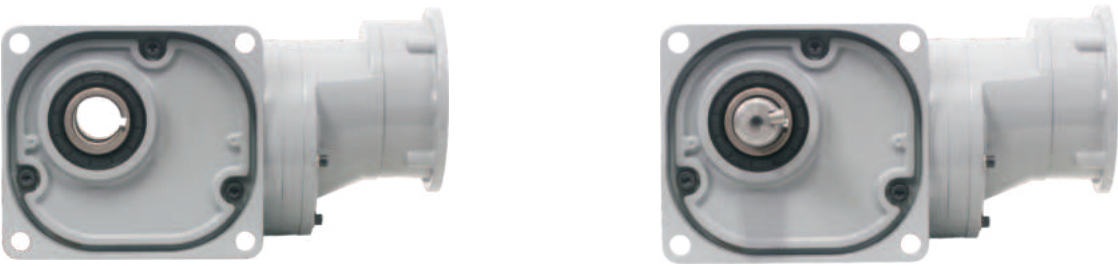
| POWER<br>功率     | FLANGE<br>法蘭規格 | BORE<br>輸入孔 | KEYWAY<br>鍵槽   |                               |
|-----------------|----------------|-------------|----------------|-------------------------------|
|                 |                |             | S <sub>1</sub> | W <sub>1</sub> T <sub>1</sub> |
| 0.1kW<br>0.2kW  | B5-63          | Φ11         | 4              | 12.8                          |
| 0.4kW           | B5-71          | Φ14         | 5              | 16.3                          |
| 0.4kW<br>0.75kW | B5-80          | Φ19         | 6              | 21.8                          |
| 1.5kW           | B5-90          | Φ24         | 8              | 27.3                          |
| 2.2kW<br>3.7kW  | B5-112M        | Φ28         | 8              | 31.3                          |
| 3.7kW           | B5-112M        | Φ28         | 8              | 31.3                          |

OUTPUT SHAFT 輸出軸尺寸

| SIZE(S)<br>型番 | SHAFT<br>輸出軸 | KEYWAY<br>鍵槽 |      | KEY<br>鍵 |
|---------------|--------------|--------------|------|----------|
|               |              | ΦS           | W T  |          |
| 25            | Φ25          | 8            | 28.3 | 8*7      |
| 30            | Φ30          | 8            | 33.3 | 8*7      |
| 35            | Φ35          | 10           | 38.3 | 10*8     |
| 35            | Φ35          | 10           | 38.3 | 10*8     |
| 45            | Φ45          | 14           | 48.8 | 14*9     |
| 55            | Φ55          | 16           | 59.3 | 16*10    |

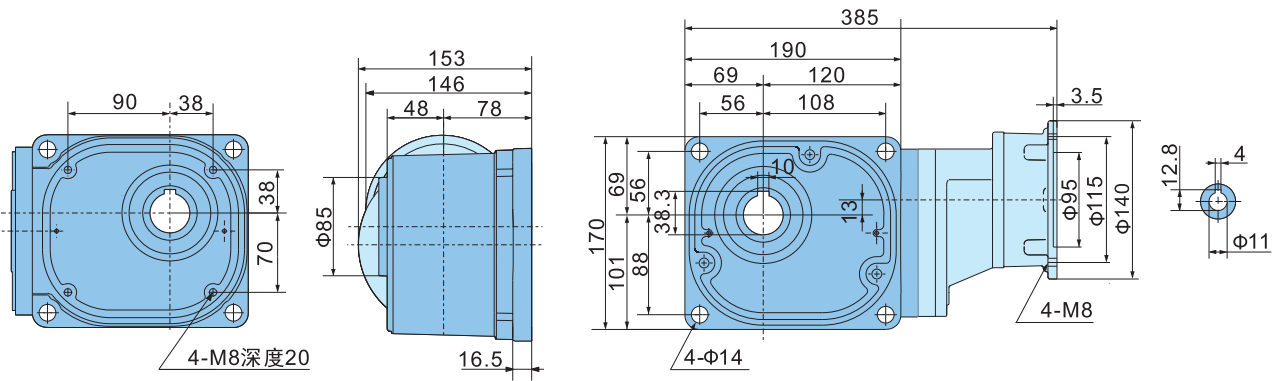
| POWER<br>功率     | FLANG<br>法蘭 | RATIO<br>減速比 | SIZE(S)<br>型番 | A   | B   | C   | D  | E   | F   | G   | H    | I   | J  | K   | L    | M  | N   | O   | P   | Q   | R    | U  | V   | X   | Y  | Z   |
|-----------------|-------------|--------------|---------------|-----|-----|-----|----|-----|-----|-----|------|-----|----|-----|------|----|-----|-----|-----|-----|------|----|-----|-----|----|-----|
| 0.1kW<br>0.2kW  | B5-63       | 5-90         | 25            | 204 | 95  | 115 | 44 | 82  | 55  | 93  | 11.5 | 66  | 11 | 63  | 12.5 | 44 | 140 | 55  | 77  | 133 | 42   | 28 | 50  | 66  | 28 | M6  |
| 0.4kW           | B5-71       | 5-90         | 30            | 227 | 110 | 130 | 50 | 90  | 62  | 102 | 14   | 72  | 11 | 70  | 14   | 50 | 160 | 62  | 84  | 148 | 40   | 33 | 55  | 73  | 33 | M8  |
| 0.75kW<br>1.5kW | B5-80       | 5-120        | 35            | 284 | 130 | 165 | 56 | 108 | 69  | 121 | 14   | 88  | 16 | 78  | 17   | 56 | 200 | 69  | 101 | 179 | 50   | 38 | 70  | 90  | 38 | M8  |
| 2.2kW<br>3.7kW  | B5-112M     | 5-100        | 45            | 340 | 180 | 215 | 70 | 134 | 85  | 149 | 16   | 104 | 17 | 90  | 18   | 70 | 250 | 85  | 119 | 215 | 56   | 48 | 82  | 112 | 48 | M12 |
| 2.2kW<br>3.7kW  | B5-112M     | 5-60         | 55            | 405 | 180 | 215 | 90 | 168 | 110 | 188 | 18   | 132 | 21 | 110 | 23.5 | 90 | 250 | 110 | 152 | 238 | 74.5 | 58 | 100 | 136 | 58 | M12 |

IEC INPUT-TYPE HIGH RATIO REDUCER  
IEC輸入型高速比減速器

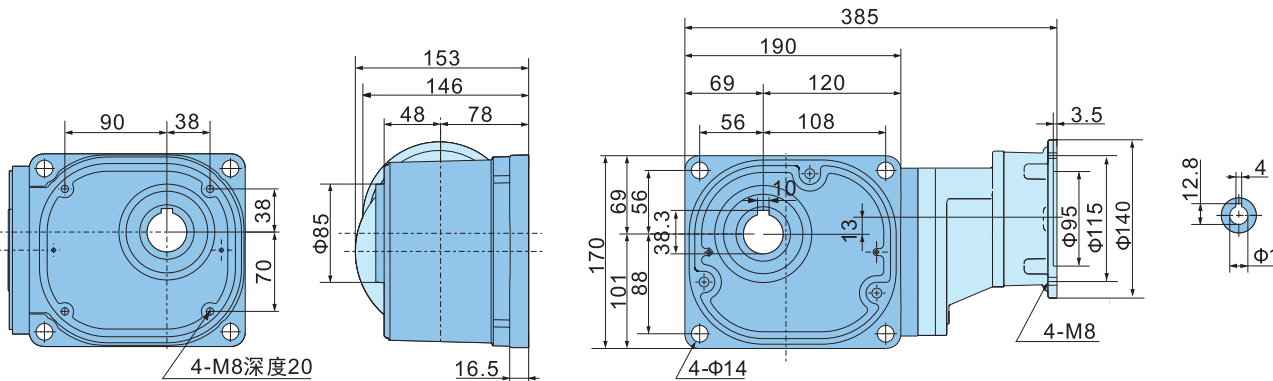


FS35 ( 10 ) NM25- ( 250~2400 ) K+B563+100W      FF32 ( 10 ) TM25- ( 250~2400 ) K+B563+100W

FS35 ( 10 ) NM25- ( 250~2400 ) K+B563+100W

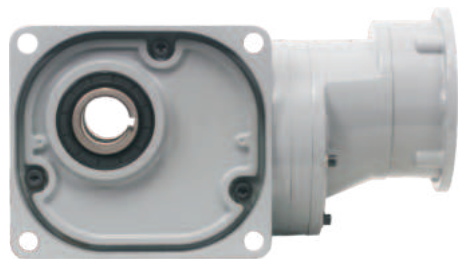


FS35 ( 10 ) NM25- ( 150~1200 ) K+B563+200W

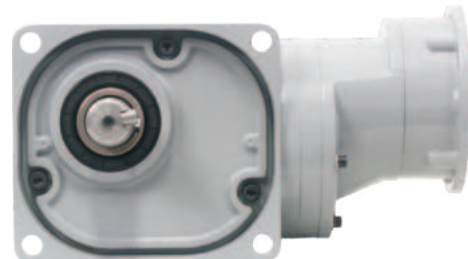




IEC INPUT-TYPE HIGH RATIO REDUCER  
IEC輸入型高速比減速器

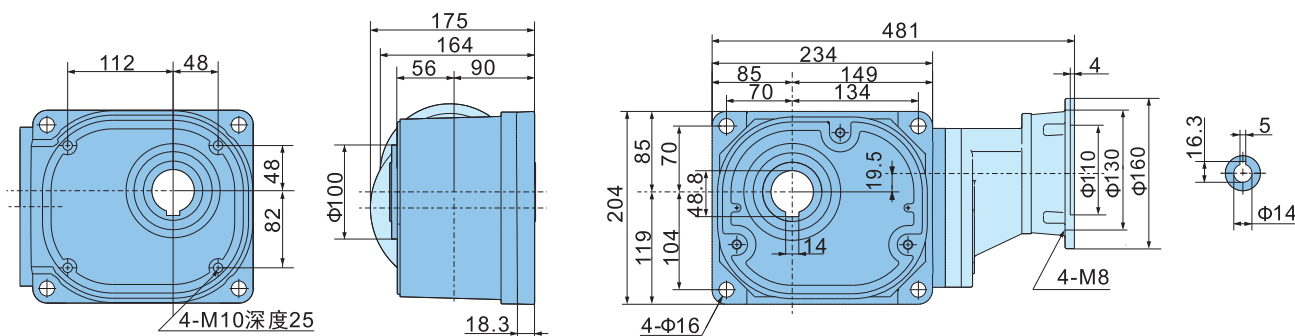


FS45 ( 14 ) NM30-  
( 150~1200 ) K+B571+400W

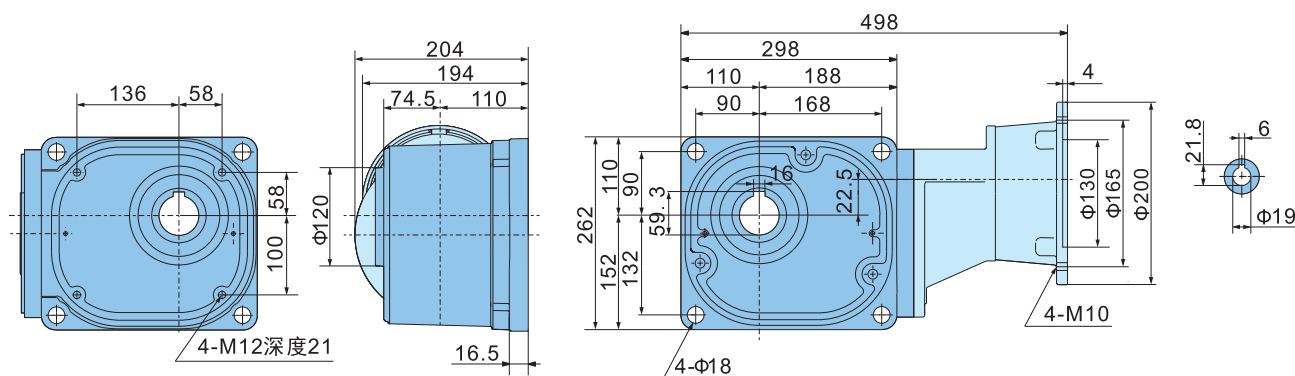


FF40 ( 12 ) TM30-  
( 150~1200 ) K+B571+400W

FS45 ( 14 ) NM30- ( 150~1200 ) K+B571+400W



FS55 ( 16 ) NM35- ( 150~1200 ) K+B580+750W



SHAFT INPUT-TYPE REDUCER  
軸輸入型減速器

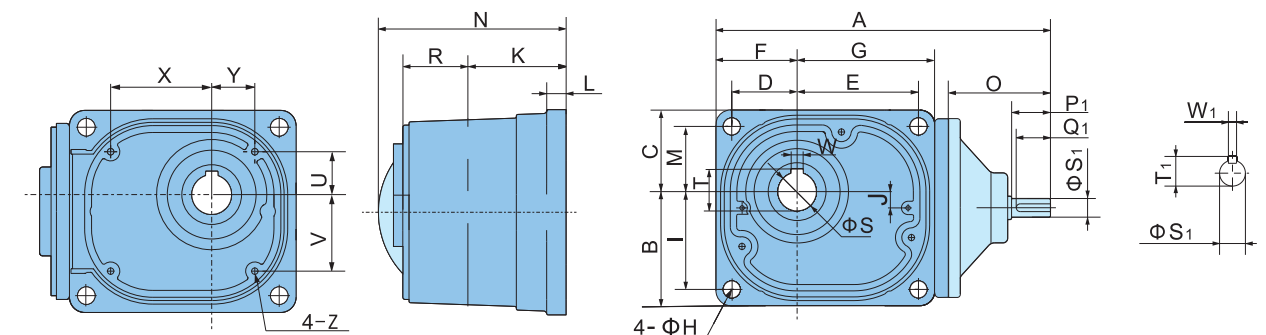


FS45 ( 14 ) N ( 5~240 ) K+400W



FF40 ( 12 ) T ( 5~240 ) K+400W

SHAFT INPUT-TYPE REDUCER 軸輸入型減速器



INPUT SHAFT 輸入軸尺寸

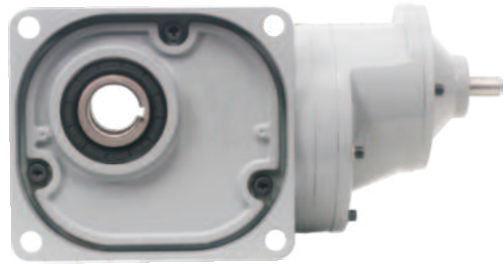
| POWER<br>功率      | SHAFT<br>輸入軸   |                | KEYWAY<br>鍵槽   |                |                | KEY<br>鍵 |
|------------------|----------------|----------------|----------------|----------------|----------------|----------|
|                  | S <sub>1</sub> | P <sub>1</sub> | W <sub>1</sub> | T <sub>1</sub> | Q <sub>1</sub> |          |
| 0.1kW<br>0.2kW   | Φ14            | 25             | 5              | 16.3           | 22             | 5*5*22   |
| 0.4kW            | Φ16            | 30             | 5              | 18             | 27             | 5*5*27   |
| 0.55kW<br>0.75kW | Φ19            | 38             | 6              | 21.8           | 35             | 6*6*35   |
| 1.1kW<br>1.5kW   | Φ24            | 48             | 8              | 27.3           | 45             | 8*7*45   |
| 2.2kW<br>3.7kW   | Φ28            | 53             | 8              | 31.3           | 50             | 8*7*50   |

OUTPUT SHAFT 輸出軸尺寸

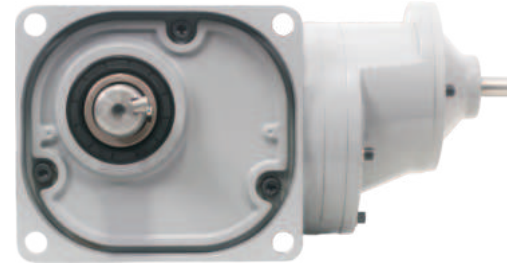
| SIZE(S)<br>型番 | SHAFT<br>輸出軸 |    | KEYWAY<br>鍵槽 |    | KEY<br>鍵 |
|---------------|--------------|----|--------------|----|----------|
|               | ΦS           | W  | T            | Q  |          |
| 25            | 25           | 8  | 28.3         | 22 | 8*7      |
| 30            | 30           | 8  | 33.3         | 27 | 8*7      |
| 35            | 35           | 10 | 38.3         | 35 | 10*8     |
| 35            | 35           | 10 | 38.3         | 35 | 10*8     |
| 45            | 45           | 14 | 48.8         | 45 | 14*9     |
| 55            | 55           | 16 | 59.3         | 50 | 16*10    |

| POWER<br>功率 | RATIO<br>減速比 | SIZE(S)<br>型番 | A   | B   | C   | D  | E   | F   | G   | H    | I   | J  | K   | L    | M  | N   | O    | R    | U  | V   | X   | Y  | Z   |
|-------------|--------------|---------------|-----|-----|-----|----|-----|-----|-----|------|-----|----|-----|------|----|-----|------|------|----|-----|-----|----|-----|
| 0.1kW       | 5-240        | 25            | 222 | 77  | 55  | 44 | 82  | 55  | 93  | 11.5 | 66  | 11 | 63  | 12.5 | 44 | 121 | 65.5 | 42   | 28 | 50  | 66  | 28 | M6  |
| 0.2kW       | 5-240        | 30            | 245 | 84  | 62  | 50 | 90  | 62  | 102 | 14   | 72  | 11 | 68  | 14   | 50 | 132 | 65   | 40   | 33 | 55  | 73  | 33 | M8  |
| 0.4kW       | 5-240        | 35            | 287 | 101 | 69  | 56 | 108 | 69  | 121 | 14   | 88  | 16 | 78  | 17   | 56 | 153 | 82   | 58   | 38 | 70  | 90  | 38 | M8  |
| 0.75kW      | 5-240        | 45            | 356 | 119 | 85  | 70 | 134 | 85  | 149 | 16   | 104 | 17 | 90  | 18   | 70 | 175 | 108  | 56   | 48 | 82  | 112 | 48 | M10 |
| 1.5kW       | 5-120        | 45            | 361 | 119 | 85  | 70 | 134 | 85  | 149 | 16   | 104 | 17 | 90  | 18   | 70 | 175 | 113  | 56   | 48 | 82  | 112 | 48 | M10 |
| 2.2kW       | 5-120        | 55            | 430 | 152 | 110 | 90 | 168 | 110 | 188 | 18   | 132 | 21 | 110 | 23.5 | 90 | 204 | 118  | 74.5 | 58 | 100 | 136 | 58 | M12 |

SHAFT INPUT-TYPE HIGH RATIO REDUCER  
軸輸入型高速比減速器

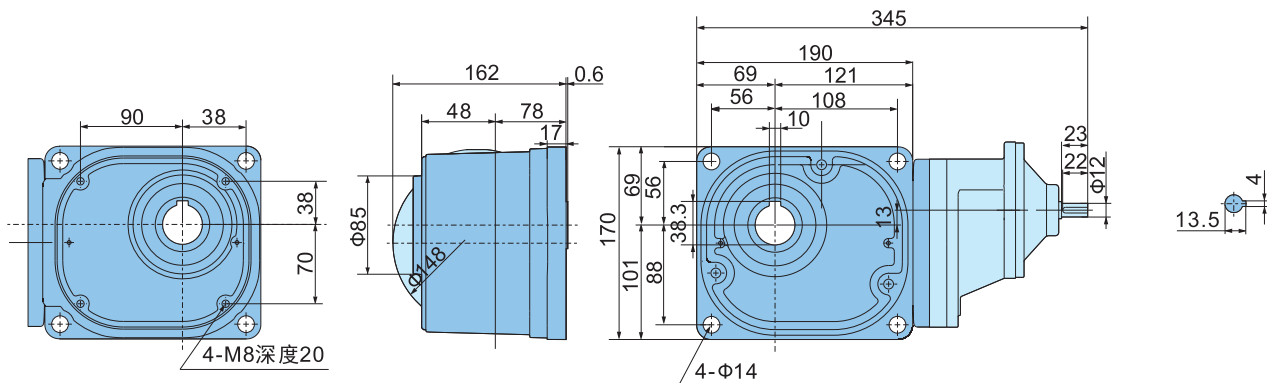


FS35 ( 10 ) NM25+ ( 250~2400 ) K  
+100W

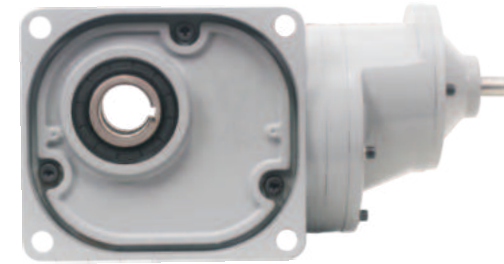


FF32 ( 10 ) TM25+ ( 250~2400 ) K  
+100W

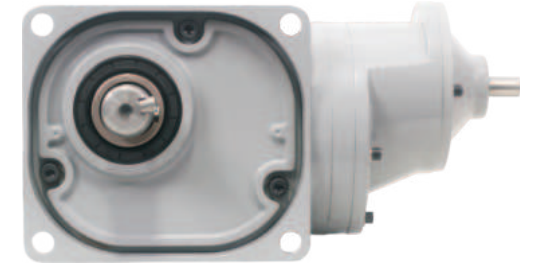
FS35 ( 10 ) NM25+ ( 250~2400 ) K+100W



SHAFT INPUT-TYPE HIGH RATIO REDUCER  
軸輸入型高速比減速器

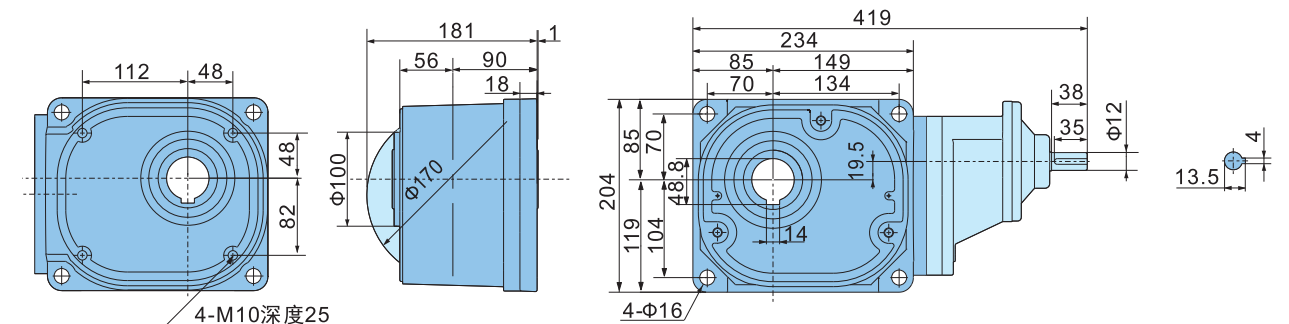


FS45 ( 14 ) NM30+ ( 150~1200 ) K  
+400W

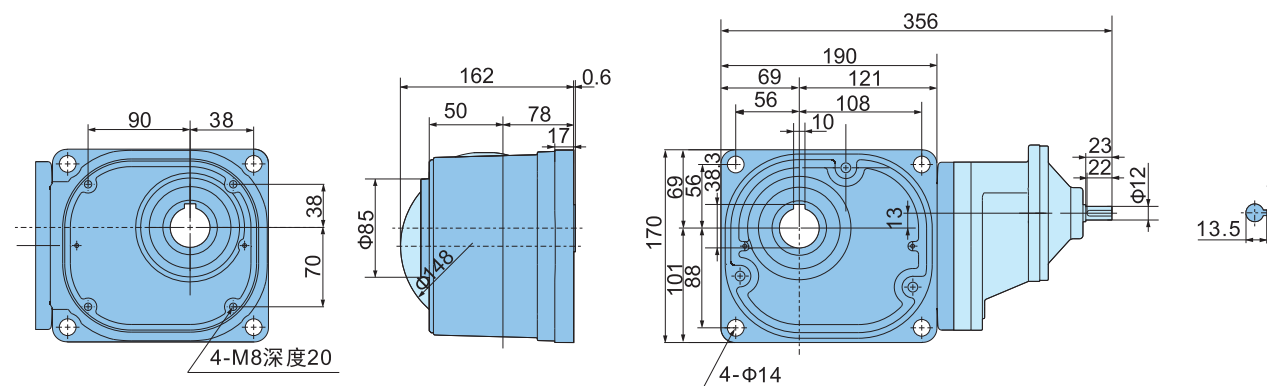


FF40 ( 12 ) TM30+ ( 150~1200 ) K  
+400W

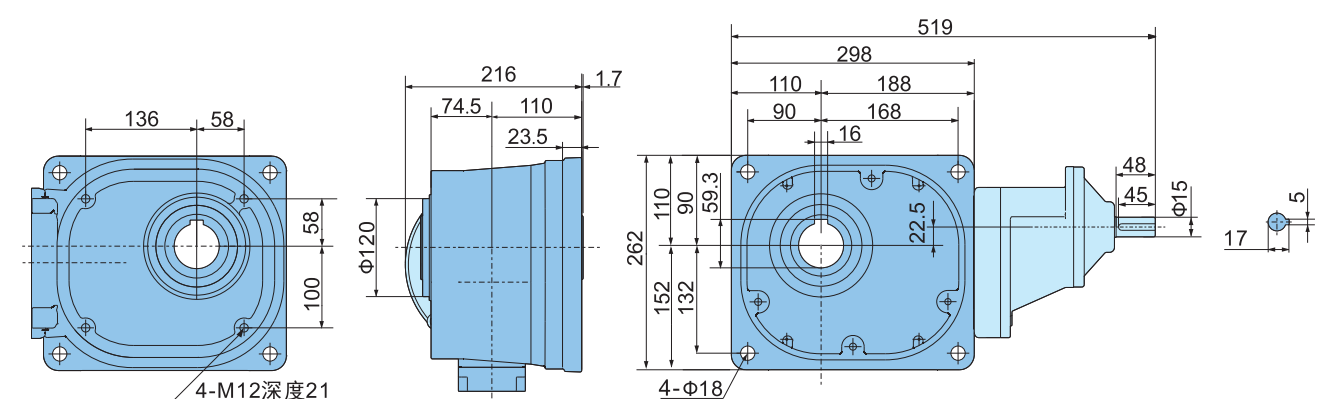
FS45 ( 14 ) NM30+ ( 150~1200 ) K+400W



FS35 ( 10 ) NM25+ ( 150~1200 ) K+200W



FS55 ( 16 ) NM35+ ( 150~1200 ) K+750W





# H2 Series

## HYPOID GEAR REDUCTION MOTOR

### H2系列中型準雙曲面齒輪減速電機

0.1kW~3.7kW

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特性表、外形圖



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Drive the world together



H2 Series hypoid reduction motor  
H2系列中型準雙曲面齒輪減速機

|    |   |    |   |         |   |     |    |   |      |   |     |   |   |    |    |   |      |   |
|----|---|----|---|---------|---|-----|----|---|------|---|-----|---|---|----|----|---|------|---|
| A  | - | H2 | L | 32 (10) | L | M25 | XK | - | X110 | + | 200 | W | - | S3 | F  | - | X110 | - |
| 0  |   | 1  | 2 | 3       | 4 | 5   | 6  |   | 7    |   | 8   | 9 |   | 10 | 11 |   | 12   |   |
| A1 |   | LD |   | ( G )   | - | IP  |    |   |      |   |     |   |   |    |    |   |      |   |
| 13 |   | 14 |   | 15      |   | 16  |    |   |      |   |     |   |   |    |    |   |      |   |

|    |                                                  |                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0  | Gear case type 齒輪箱類型                             | A: type A    B: type B    A: A型箱    B: B型箱                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1  | Type code 機型系列代號                                 | H2: H2 Series hypoid reduction motor    H2:H2系列中型準雙曲面齒輪減速機                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2  | Installation 安裝方式                                | L: Foot mounting    L: 底腳安裝                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                  | F: Flange mounting    F: 法蘭安裝                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3  | Output shaft DIA 輸出軸軸徑                           | 22 ( 6 ) : Φ22 ( 鍵槽尺寸6 )    28 ( 8 ) : Φ28 ( 8 )    32 ( 10 ) : Φ32 ( 10 )<br>40 ( 12 ) : Φ40 ( 12 )    50 ( 14 ) : Φ50 ( 14 )                                                                                                                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4  | Axis configuration 軸配置                           | <div>Viewed from input shaft output shaft is on the left<br/>L:從輸入軸一側觀察,輸出軸位于左側</div> <div>Viewed from input shaft output shaft is on both sides<br/>T:從輸入軸一側觀察,輸出軸位于兩側</div> <div>Viewed from input shaft output shaft is on the right<br/>R:從輸入軸一側觀察,輸出軸位于右側</div> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5  | Middle gear head 中間箱                             | M25 ( 140轉110 )    M30 ( 160轉120 )    M35 ( 175轉140 )                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6  | Gear ratio 減速比                                   | 5: 1:5    7.5: 1:7.5    10: 1:10    20: 1:20    30: 1:30    x: 1:x                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7  | Flange type 法蘭形式                                 | x101 ( x110、x120、140、160、175 )B5(B5-63、B5-71、B5-80、B5-90、B5-112M)                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                  | ( Not specified for shaft input 未注為軸輸入型 )                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8  | Rated power 額定功率                                 | 100: 100W    200: 200W    400: 400W    750: 750W    x: xW                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9  | Brake unit 剎車器形式                                 | W: No brake motor 非剎車電機    B: Brake motor 剎車電機<br>YB: Brake with manual release 帶手動釋放剎車                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Rated voltage 額定電壓                               | C1: 1-Phase 單相 110V    C2: 1-Phase 單相 220V                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                  | S2: 3-Phase 三相 220V    S3: 3-Phase 三相 380V                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | Code of fan 風扇代號                                 | S4: 3-Phase 三相 440V    S2/3: 3-Phase 三相 220/380V                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                  | F: Common 普通風扇<br>S: Forced 強制風扇<br>※No make means motor without fan 無風扇不標                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | Flange type 法蘭形式                                 | x101 ( x110、x120、140、160、175 )                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | Terminal box direction form output shaft 從軸端看盒位置 | A1: Down direction 下方向<br>A2: Top direction 上方向<br>A3: Left direction 左方向<br>A4: Right direction 右方向<br>Remark備注: A1direction is standardA1 是標配方向                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                  | L: Left direction 向左方向    R: Right direction 向右方向<br>T: Top direction 向上方向    D: Down direction 向下方向<br>F: Forward direction 向前方向    B: Back 向后方向                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | Color 顏色                                         | M:Medium gray 中灰色    G: Green 綠色                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                  | R: Red 紅色    W: White 灰白色                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | Protection Class 防護等級                            | 20    54                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

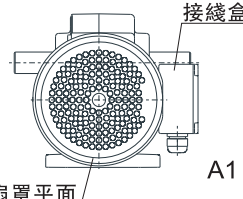
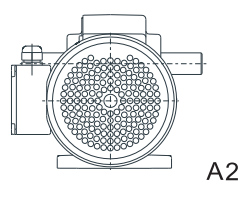
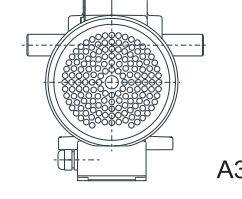
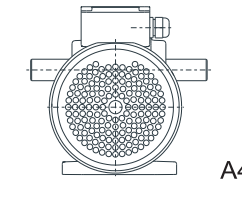
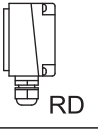
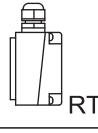
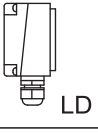
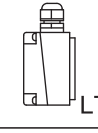
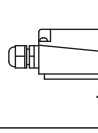
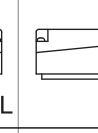
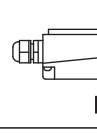
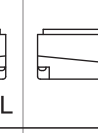
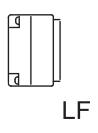
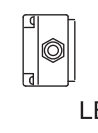
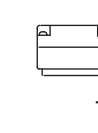
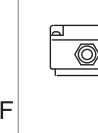
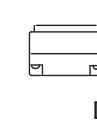
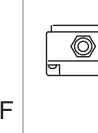
As technical data for these machines may be advantaged , please contact us or visit the company website. Not allow for publish without formal approved.  
因技術改進，實際值可能與上述參數有差異，恕不另行通知，若需具體參數，敬請諮詢本公司或瀏覽網站。

型號說明  
Description of model



DESCRIPTION OF MODEL 型號說明

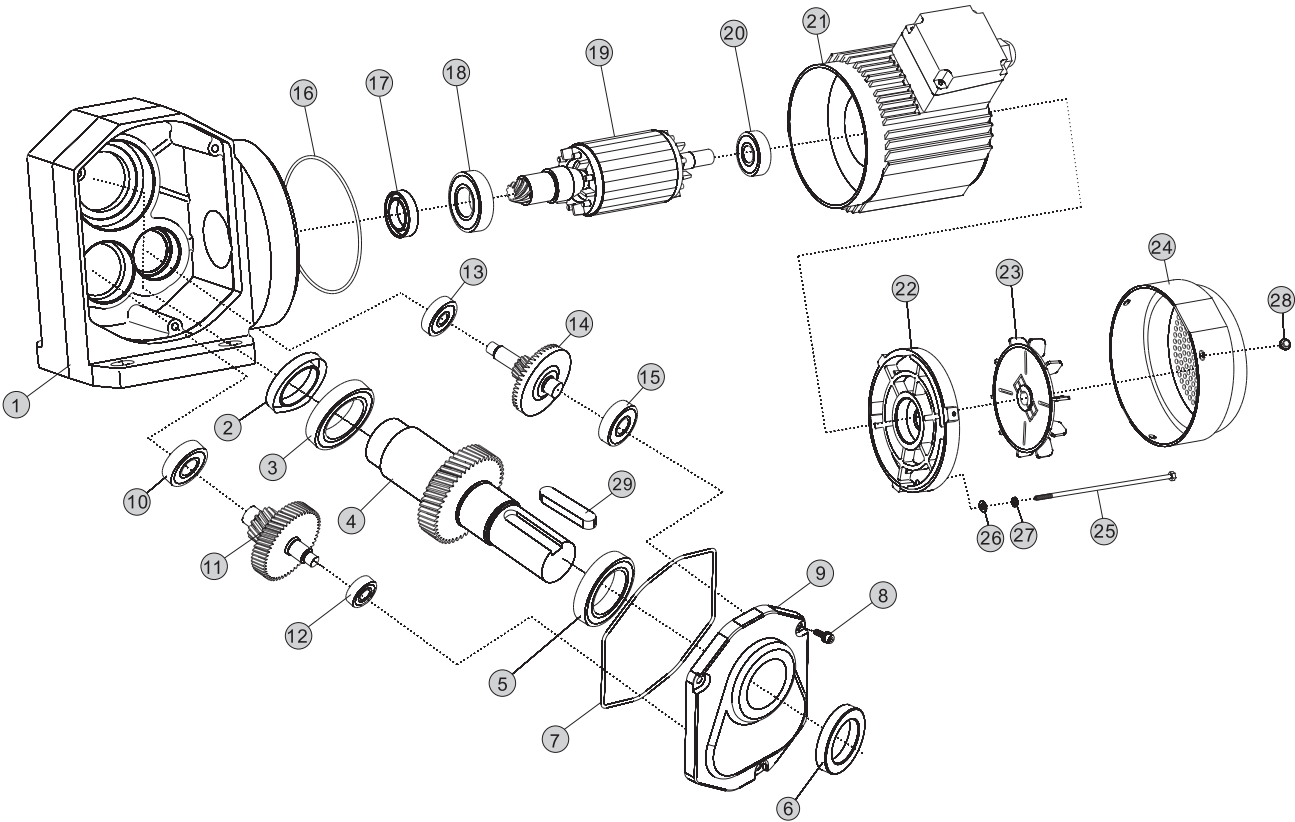
erminal box direction, lead wire direction and ventilation installation diagram 接綫盒位置和引出綫方向示意圖

|                                                                         |                                                                                      |  |                                                                                       |  |                                                                                        |  |                                                                                        |  |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|--|
| View the terminal box position from the input shaft end.<br>從輸入軸端看接綫盒方位 |  A1 |  |  A2  |  |  A3  |  |  A4 |  |
|                                                                         | 風扇罩平面                                                                                |  |                                                                                       |  |                                                                                        |  |                                                                                        |  |
| Lead wire direction from output shaft<br>從軸端看引出綫方向                      |  RD |  |  RT  |  |  LD   |  |  LT   |  |
|                                                                         |  TL |  |  TR |  |  DL |  |  DR |  |
|                                                                         |  RF |  |  RB  |  |  LF   |  |  LB   |  |
|                                                                         |  TF |  |  TB |  |  DF |  |  DB |  |

Standard Model Composition Table 標準機型構成表

| Model<br>型號            | Rated Power<br>電機功率 | Shaft Dim<br>軸徑(d) | Gear Case<br>齒輪箱 | Ratio<br>減速比                                             |
|------------------------|---------------------|--------------------|------------------|----------------------------------------------------------|
| Reduction motor<br>減速機 | 0.1kW               | Φ22d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                        |                     |                    | B                | 1/80 1/100 1/120 1/160 1/200 1/240                       |
|                        | 0.2kW               | Φ22d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                        |                     |                    | B                | 1/80 1/100 1/120 *1/160 *1/200 *1/240                    |
|                        |                     | Φ28d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                        |                     |                    | B                | 1/80 1/100 1/120 1/160 1/200 1/240                       |
|                        | 0.4kW               | Φ22d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30                |
|                        |                     |                    | B                | 1/40 1/50 1/60 *1/80 *1/100 *1/120                       |
|                        |                     | Φ28d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                        |                     |                    | B                | 1/80 1/100 1/120 *1/160 *1/200 *1/240                    |
|                        |                     | Φ32d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                        |                     |                    | B                | 1/80 1/100 1/120 1/160 1/200 1/240                       |
|                        | 0.75kW              | Φ28d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30                |
|                        |                     |                    | B                | 1/40 1/50 1/60 *1/80 *1/100 *1/120                       |
|                        |                     | Φ32d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                        |                     |                    | B                | 1/80 1/100 1/120 *1/160 *1/200 *1/240                    |
|                        |                     | Φ40d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                        |                     |                    | B                | 1/80 1/100 1/120 1/160 1/200 1/240                       |
|                        | 1.1kW               | Φ32d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30                |
|                        |                     |                    | B                | 1/40 1/50 1/60 *1/80 *1/100 *1/120                       |
|                        |                     | Φ40d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                        |                     |                    | B                | 1/80 1/100 1/120 1/160 1/200 1/240                       |
|                        | 1.5kW               | Φ32d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30                |
|                        |                     |                    | B                | 1/40 1/50 1/60 *1/80 *1/100 *1/120                       |
|                        |                     | Φ40d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                        |                     |                    | B                | 1/80 1/100 1/120 *1/160 *1/200 *1/240                    |
|                        |                     | Φ50d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                        |                     |                    | B                | 1/80 1/100 1/120 1/160 1/200 1/240                       |
|                        | 2.2kW               | Φ40d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30                |
|                        |                     |                    | B                | 1/40 1/50 1/60 *1/80 *1/100 *1/120                       |
|                        |                     | Φ50d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60 |
|                        |                     |                    | B                | 1/80 1/100 1/120 *1/160 *1/200 *1/240                    |
|                        | 3.7kW               | Φ50d               | A                | 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30                |
|                        |                     |                    | B                | 1/40 1/50 1/60 *1/80 *1/100 *1/120                       |

PRODUCT STRUCTURE DIAGRAM 產品結構圖



Detail parts list 零件清單

| No | Denomination<br>零件名稱   | No | Denomination<br>零件名稱 | No | Denomination<br>零件名稱  |
|----|------------------------|----|----------------------|----|-----------------------|
| 1  | Housing 本體             | 11 | 2nd main gear 二軸組件   | 21 | Stator 定子總成           |
| 2  | Oil seal 油封            | 12 | Ball bearing 軸承      | 22 | Rear cover 後端蓋        |
| 3  | Ball bearing 軸承        | 13 | Ball bearing 軸承      | 23 | Fan 風葉                |
| 4  | Output main gear 輸出輪組件 | 14 | 1st main gear 一輪組件   | 24 | Fan cover 風罩          |
| 5  | Ball bearing 軸承        | 15 | Ball bearing 軸承      | 25 | Long bolt-motor 電機長絲杆 |
| 6  | Oil seal 油封            | 16 | O-ring O型密封圈         | 26 | Plain washer 平墊       |
| 7  | O-ring O型密封圈           | 17 | Oil seal 油封          | 27 | Spring washer 彈墊      |
| 8  | Inner hex.screw 內六角螺釘  | 18 | Ball bearing 軸承      | 28 | Cross screw 十字螺釘      |
| 9  | Bearing plate 軸承板      | 19 | Rotor 轉子             | 29 | key 平鍵                |
| 10 | Ball bearing 軸承        | 20 | Ball bearing 軸承      |    |                       |

STANDARD SPECIFICATIONS 標準規格

|                     |                                |                                                                     |                   |
|---------------------|--------------------------------|---------------------------------------------------------------------|-------------------|
| Motor<br>電機         | Phase<br>相數                    | Single phase 單相                                                     | Three phases 三相   |
|                     | Power<br>功率                    | 0.1, 0.2, 0.4, 0.75, 1.1, 1.5, 2.2, 3.7kW                           |                   |
|                     |                                | No brake 、with brake 無制動器、附帶制動器                                     |                   |
|                     | Rated power<br>電源              | 220v/50Hz                                                           | 380v/50Hz         |
|                     | Poles of the motor<br>電機極數     | 4                                                                   |                   |
|                     | Protection class<br>防護等級       | IP54                                                                |                   |
|                     | Cooling-down method<br>冷卻方式    | Self-control type 自控型 (IC411)                                       |                   |
|                     | Starting duty<br>啟動方式          | Running capacitor 運轉電容                                              | Direct start 全壓啟動 |
|                     | Time duty<br>工作制式              | Continuous running 連續運轉                                             |                   |
|                     | Insucation class<br>絕緣         | Option of B class or Fclass B級或F級                                   |                   |
| Reducer<br>減速器      | Action<br>制動器方式                | Non-excitation action type、DC electromagnetic brake 無勵磁動作型、直流電磁制動器  |                   |
|                     | Ratio<br>減速比                   | 1/5~1/240                                                           |                   |
|                     | Lubricating<br>潤滑方式            | Lubricant 封閉 潤滑油                                                    |                   |
| Environment<br>適用環境 | Shaft end key way<br>軸端鍵槽部     | GB/T1095-2003: 附帶輸出軸鍵 ( 鍵為普通級別 )                                    |                   |
|                     | Installation site<br>安裝場所      | Less dust .nowater drench place 室內塵埃較少、無水淋的場所                       |                   |
|                     | Temperature<br>溫度              | -10℃~+40℃                                                           |                   |
|                     | Humidity<br>濕度                 | Below85% 85%以下 ( 無結霜 )                                              |                   |
|                     | Environment<br>環境              | Non-corrosive gas、explosive gas、water vapor etc 無腐蝕性氣體、爆炸性氣體，水蒸氣等   |                   |
|                     | Installation direction<br>安裝方向 | No horizontal、vertical、tilt mounting restrictions 無水平、垂直、傾斜等安裝角度的限制 |                   |
|                     | Color<br>顏色                    | Medium中灰色 Green綠色 Red紅色 White白灰色                                    |                   |

motor characteristic 電機特性

| Phase<br>相數                           | Power<br>功率 | Poles of the motor<br>電機極數 | Rated Frequency<br>頻率 ( Hz ) | Rated Voltage<br>電壓 ( V ) | Rated power<br>額定電流值 ( A ) | Rated power<br>額定轉速 ( rpm ) | 20℃時，直流側制動器<br>電流值 ( A,參考值 ) |
|---------------------------------------|-------------|----------------------------|------------------------------|---------------------------|----------------------------|-----------------------------|------------------------------|
| Singe phase / Three phases<br>單相 / 三相 | 0.1kW       | 4                          | 50                           | 220 ( 380 )               | 0.52 ( 0.31 )              | 1400                        | 0.19                         |
|                                       | 0.2kW       |                            |                              |                           | 0.92 ( 0.56 )              |                             | 0.19                         |
|                                       | 0.4kW       |                            |                              |                           | 1.8 ( 1.0 )                |                             | 0.19                         |
|                                       | 0.75kW      |                            |                              |                           | 3.2 ( 1.8 )                |                             | 0.28                         |
|                                       | 1.1kW       |                            |                              |                           | 4.4 ( 2.5 )                |                             | 0.28                         |
|                                       | 1.5kW       |                            |                              |                           | 5.6 ( 3.3 )                |                             | 0.28                         |
|                                       | 2.2kW       |                            |                              |                           | 8.0 ( 4.6 )                |                             | 0.28                         |
|                                       | 3.7kW       |                            |                              |                           | 10.8 ( 7.5 )               |                             | 0.35                         |

注 ) 額定電流值 ( ) 內為380V時的值。  
As technical data for these machines may be advantaged , please contact us or visit the company website. Not allow for publish without formal approved.  
因技術改進，實際值可能與上述參數有差異，恕不另行通知，若需具體參數，敬請諮詢本公司或瀏覽網站。

0.1kW  
1-PHASE/3-PHASE  
單相/三相



A-H2F22 ( 6 ) T- ( 5~60 ) K-X101+100WS3F  
B-H2F22 ( 6 ) T- ( 70~240 ) K-X101+100WS3F



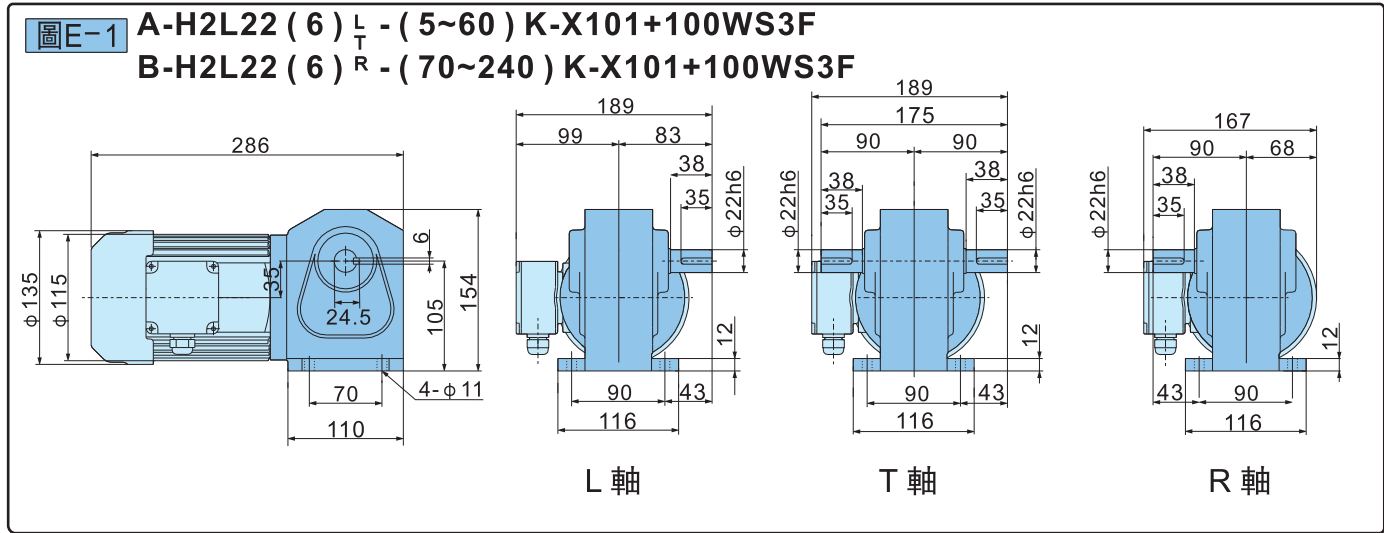
A-H2L22 ( 6 ) T- ( 5~60 ) K-X101+100WS3F  
B-H2L22 ( 6 ) T- ( 70~240 ) K-X101+100WS3F

| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insulation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.1kW       | 380                       | 50                           | 0.31                         | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 0.52                         | 1400                        |                          |                          |

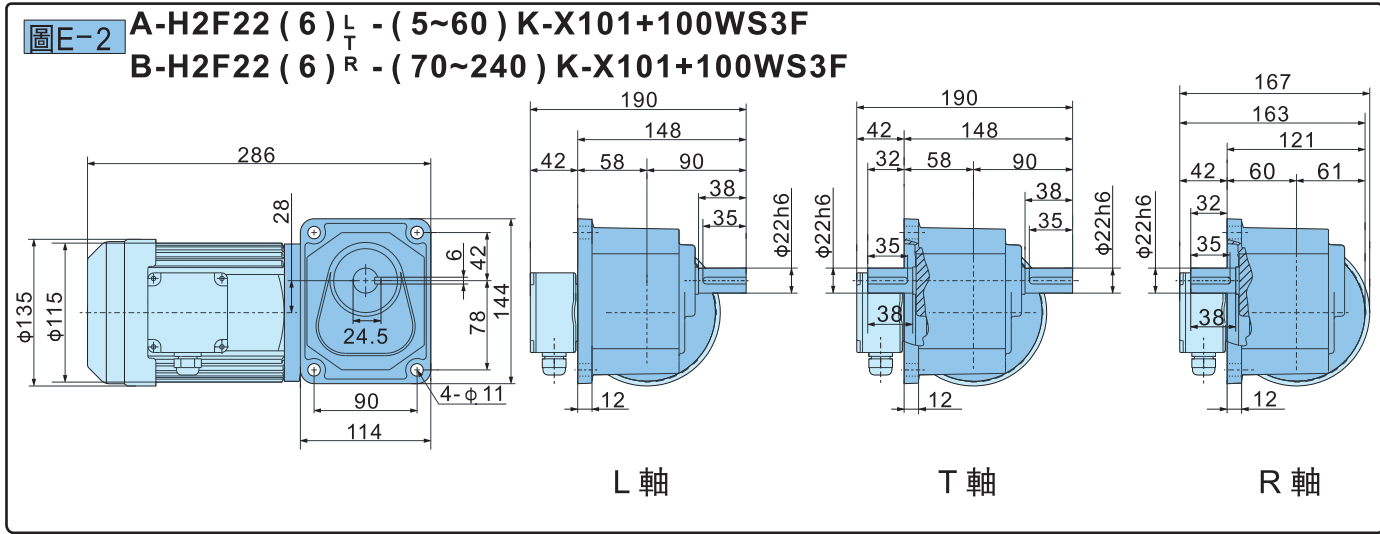
| Power<br>功率 | Dimension<br>drawing<br>尺寸圖 |  | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction Ratio<br>實際減速比<br>( 分數 ) | Output Speed<br>輸出轉速 ( rpm ) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------------------|--|---------------------|--------------|------------------------------------|------------------------------|---------------------------|---------|----------------------------|-----|
|             |                             |  |                     |              |                                    |                              | N · m                     | kgf · m | N                          | kgf |
| 0.1kW       | φ22<br>(6)                  |  | E-1                 | A            |                                    | 50Hz                         | 50Hz                      | 50Hz    |                            |     |
|             |                             |  |                     |              | 1/5                                | 300                          | 2.8                       | 0.29    | 588                        | 60  |
|             |                             |  |                     |              | 1/7.5                              | 200                          | 4.2                       | 0.39    | 698                        | 71  |
|             |                             |  |                     |              | 1/10                               | 150                          | 5.7                       | 0.58    | 931                        | 95  |
|             |                             |  |                     |              | 1/12.5                             | 120                          | 7.1                       | 0.65    | 1620                       | 165 |
|             |                             |  |                     |              | 1/15                               | 100                          | 8.6                       | 0.88    | 1030                       | 105 |
|             |                             |  |                     |              | 1/20                               | 75                           | 12                        | 1.2     | 1180                       | 120 |
|             |                             |  |                     |              | 1/25                               | 60                           | 15                        | 1.5     | 1270                       | 130 |
|             |                             |  |                     |              | 1/30                               | 50                           | 18                        | 1.8     | 1370                       | 140 |
|             |                             |  |                     |              | 1/40                               | 37.5                         | 23                        | 2.3     | 1570                       | 160 |
|             |                             |  | E-2                 | B            | 1/50                               | 30                           | 28                        | 2.9     | 1720                       | 175 |
|             |                             |  |                     |              | 1/60                               | 25                           | 34                        | 3.5     | 1760                       | 180 |
|             |                             |  |                     |              | 1/80                               | 18.8                         | 44                        | 4.5     | 1760                       | 180 |
|             |                             |  |                     |              | 1/100                              | 15                           | 55                        | 5.6     | 1760                       | 180 |
|             |                             |  |                     |              | 1/120                              | 12.5                         | 67                        | 6.8     | 1760                       | 180 |
|             |                             |  |                     |              | 1/160                              | 9.4                          | 88                        | 9       | 1760                       | 180 |
|             |                             |  |                     |              | 1/200                              | 7.5                          | 111                       | 11.3    | 1760                       | 180 |
|             |                             |  |                     |              | 1/240                              | 6.3                          | 118                       | 12      | 1760                       | 180 |

Note: 1.Output O.H.L is the center of output shaft. ( 注 ) 1.容許O.H.L為輸出軸中央的位置。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.※ Marked as torque limited. 3.※標記為轉矩力受限機型。

Foot mounting 底腳安裝



Flange mounting 法蘭安裝

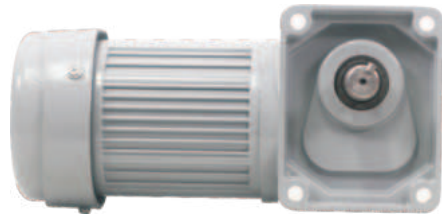


特性表、尺寸圖  
Feature table, size diagram

特性表、尺寸圖  
Feature table, size diagram



0.2kW  
1-PHASE/3-PHASE  
單相/三相



A-H2F22 (6) T- (5~60) K-X101+200WS3F  
B-H2F22 (6) T- (70~240) K-X101+200WS3F



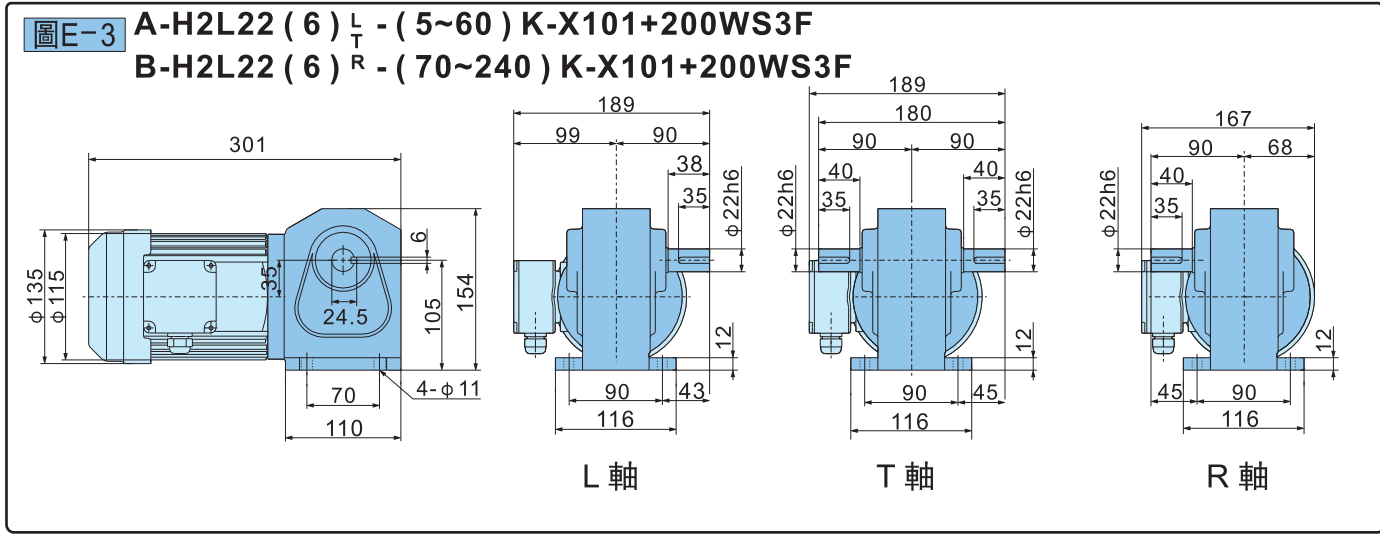
A-H2L22 (6) T- (5~60) K-X101+200WS3F  
B-H2L22 (6) T- (70~240) K-X11+200WS3F

| Power<br>功率 | Rated power<br>電壓 (V) | Rated power<br>頻率 (Hz) | Rated Currment<br>額定電流 (A) | Rated Speed<br>額定轉速 (rpm) | Insulation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-----------------------|------------------------|----------------------------|---------------------------|--------------------------|--------------------------|
| 0.2kW       | 380                   | 50                     | 0.56                       | 1400                      | B                        | 20 54                    |
|             | 220                   | 50                     | 0.92                       | 1400                      |                          |                          |

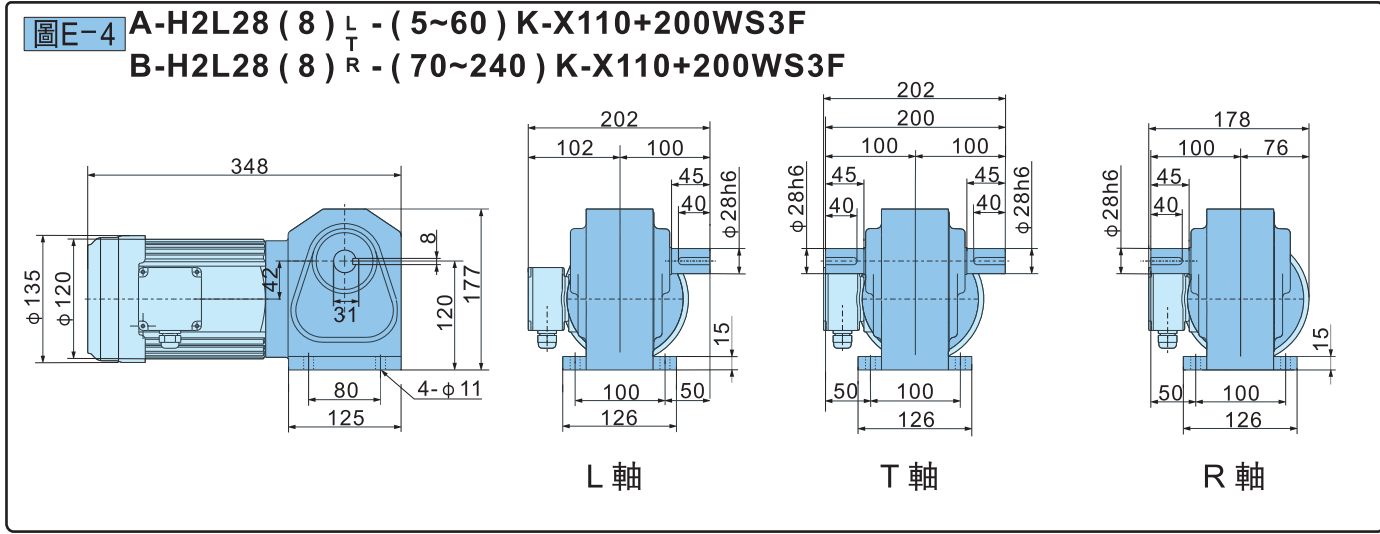
| Power<br>功率 | Dimension<br>drawing<br>尺寸圖 |     | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction Ratio<br>實際減速比<br>(分數) | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------------------|-----|---------------------|--------------|----------------------------------|---------------------------|---------------------------|---------|----------------------------|-----|
|             |                             |     |                     |              |                                  |                           | N · m                     | kgf · m |                            |     |
|             |                             |     |                     |              |                                  | 50Hz                      | 50Hz                      | 50Hz    | N                          | kgf |
| 0.2<br>kW   | Φ22<br>(6)                  | E-3 | A                   | 1/5          | 1/5                              | 300                       | 5.5                       | 0.56    | 588                        | 60  |
|             |                             |     |                     | 1/7.5        | 2/15                             | 200                       | 8.3                       | 0.85    | 698                        | 71  |
|             |                             |     |                     | 1/10         | 1/10                             | 150                       | 11                        | 1.1     | 931                        | 95  |
|             |                             |     |                     | 1/12.5       | 19/230                           | 120                       | 14                        | 1.4     | 1020                       | 104 |
|             |                             |     |                     | 1/15         | 16/245                           | 100                       | 17                        | 1.7     | 1100                       | 112 |
|             |                             |     |                     | 1/20         | 1/20                             | 75                        | 23                        | 2.3     | 1180                       | 120 |
|             |                             |     |                     | 1/25         | 29/720                           | 60                        | 27                        | 2.8     | 1270                       | 130 |
|             |                             |     |                     | 1/30         | 1/30                             | 50                        | 33                        | 3.4     | 1370                       | 140 |
|             |                             |     |                     | 1/40         | 1/40                             | 37.5                      | 44                        | 4.5     | 1570                       | 160 |
|             |                             |     |                     | 1/50         | 11/540                           | 30                        | 55                        | 5.6     | 1720                       | 175 |
|             |                             |     |                     | 1/60         | 9/550                            | 25                        | 67                        | 6.8     | 1760                       | 180 |
|             |                             |     | B                   | 1/80         | 1/80                             | 18.8                      | 84                        | 8.6     | 1760                       | 180 |
|             |                             |     |                     | 1/100        | 19/1840                          | 15                        | 105                       | 10.7    | 1760                       | 180 |
|             |                             |     |                     | 1/120        | 2/245                            | 12.5                      | 105                       | 10.7    | 1760                       | 180 |
|             |                             |     |                     | *1/160       | 1/160                            | 9.4                       | 105                       | 10.7    | 1760                       | 180 |
|             |                             |     |                     | *1/200       | 1/200                            | 7.5                       | 105                       | 10.7    | 1760                       | 180 |
|             |                             |     |                     | *1/240       | 1/240                            | 6.3                       | 105                       | 10.7    | 1760                       | 180 |
|             | Φ28<br>(8)                  | E-4 | A                   | 1/5          | 1/5                              | 300                       | 5.5                       | 0.56    | 931                        | 95  |
|             |                             |     |                     | 1/7.5        | 2/15                             | 200                       | 8.3                       | 0.85    | 1102                       | 112 |
|             |                             |     |                     | 1/10         | 1/10                             | 150                       | 11                        | 1.1     | 1470                       | 150 |
|             |                             |     |                     | 1/12.5       | 19/230                           | 120                       | 14                        | 1.4     | 1620                       | 165 |
|             |                             |     |                     | 1/15         | 16/245                           | 100                       | 17                        | 1.7     | 1670                       | 170 |
|             |                             |     |                     | 1/20         | 1/20                             | 75                        | 23                        | 2.3     | 1860                       | 190 |
|             |                             |     |                     | 1/25         | 29/720                           | 60                        | 27                        | 2.8     | 2010                       | 205 |
|             |                             |     |                     | 1/30         | 1/30                             | 50                        | 33                        | 3.4     | 2110                       | 225 |
|             |                             |     |                     | 1/40         | 1/40                             | 37.5                      | 44                        | 4.5     | 2450                       | 250 |
|             |                             |     |                     | 1/50         | 11/540                           | 30                        | 55                        | 5.6     | 2650                       | 270 |
|             |                             |     |                     | 1/60         | 9/550                            | 25                        | 67                        | 6.8     | 2740                       | 280 |
|             |                             |     | B                   | 1/80         | 1/80                             | 18.8                      | 84                        | 8.6     | 2450                       | 260 |
|             |                             |     |                     | 1/100        | 19/1840                          | 15                        | 105                       | 10.7    | 2650                       | 260 |
|             |                             |     |                     | 1/120        | 2/245                            | 12.5                      | 126                       | 12.9    | 2740                       | 260 |
|             |                             |     |                     | 1/160        | 1/160                            | 9.4                       | 169                       | 17.2    | 2840                       | 290 |
|             |                             |     |                     | 1/200        | 1/200                            | 7.5                       | 184                       | 18.8    | 2840                       | 290 |
|             |                             |     |                     | 1/240        | 1/240                            | 6.3                       | 184                       | 18.8    | 2840                       | 290 |

Note: 1.Output O.H.L is the center of output shaft. (注) 1.容許O.H.L為輸出軸中央的位置。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.\* Marked as torque limited. 3.\*標記為轉矩力受限機型。

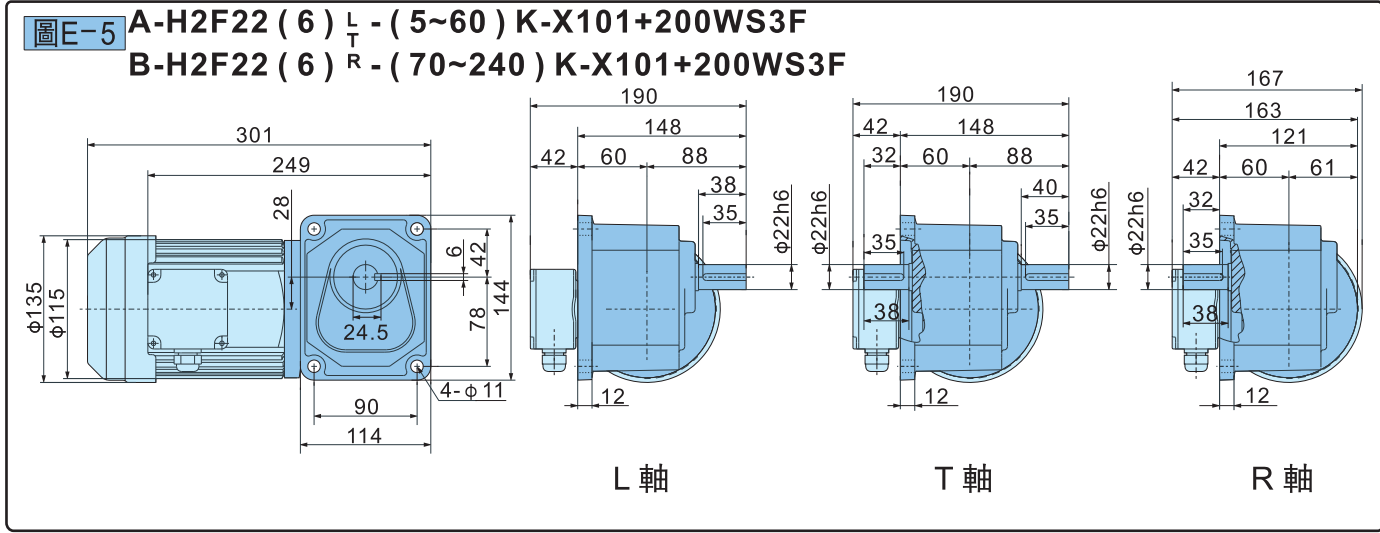
Foot mounting 底腳安裝



Foot mounting 底腳安裝



Flange mounting 法蘭安裝



0.4kW  
1-PHASE/3-PHASE  
單相/三相



A-H2F22 ( 6 ) T- ( 5~30 ) K-X110+400WS3F  
B-H2F22 ( 6 ) T- ( 35~120 ) K-X110+400WS3F



A-H2L22 ( 6 ) T- ( 5~30 ) K-X110+400WS3F  
B-H2L22 ( 6 ) T- ( 35~120 ) K-X110+400WS3F

| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insulation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.4kW       | 380                       | 50                           | 1.0                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 1.8                          | 1400                        |                          |                          |

| Power<br>功率 | Dimension<br>drawing<br>尺寸圖 |     | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction Ratio<br>實際減速比<br>( 分數 ) | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------------------|-----|---------------------|--------------|------------------------------------|---------------------------|---------------------------|---------|----------------------------|-----|
|             |                             |     |                     |              |                                    |                           | N · m                     | kgf · m |                            |     |
|             |                             |     |                     |              |                                    | 50Hz                      | 50Hz                      | 50Hz    | N                          | kgf |
| 0.4<br>kW   | Φ22<br>(6)                  | E-6 | A                   | 1/5          | 1/5                                | 300                       | 11                        | 1.1     | 588                        | 60  |
|             |                             |     |                     | 1/7.5        | 2/15                               | 200                       | 17                        | 1.7     | 698                        | 71  |
|             |                             |     |                     | 1/10         | 1/10                               | 150                       | 23                        | 2.3     | 931                        | 95  |
|             |                             |     |                     | 1/12.5       | 19/230                             | 120                       | 27                        | 2.7     | 1020                       | 104 |
|             |                             |     |                     | 1/15         | 16/245                             | 100                       | 33                        | 3.4     | 1100                       | 112 |
|             |                             |     |                     | 1/20         | 1/20                               | 75                        | 44                        | 4.5     | 1180                       | 120 |
|             |                             |     |                     | 1/25         | 29/720                             | 60                        | 55                        | 5.6     | 1270                       | 130 |
|             |                             |     |                     | 1/30         | 1/30                               | 50                        | 67                        | 6.8     | 1370                       | 140 |
|             |                             | E-9 | B                   | 1/40         | 1/40                               | 37.5                      | 88                        | 9       | 1570                       | 160 |
|             |                             |     |                     | 1/50         | 11/540                             | 30                        | 101                       | 10.3    | 1720                       | 175 |
|             |                             |     |                     | 1/60         | 9/550                              | 75                        | 101                       | 10.3    | 1760                       | 180 |
|             |                             |     |                     | ※ 1/80       | 1/80                               | 18.8                      | 101                       | 10.3    | 1760                       | 180 |
|             |                             |     |                     | ※ 1/100      | 1/100                              | 15                        | 101                       | 10.3    | 1760                       | 180 |
|             |                             |     |                     | ※ 1/120      | 1/120                              | 12.5                      | 101                       | 10.3    | 1760                       | 180 |
|             | Φ28<br>(8)                  | E-7 | A                   | 1/5          | 1/5                                | 300                       | 11                        | 1.1     | 931                        | 95  |
|             |                             |     |                     | 1/7.5        | 2/15                               | 200                       | 17                        | 1.7     | 1102                       | 112 |
|             |                             |     |                     | 1/10         | 1/10                               | 150                       | 23                        | 2.3     | 1470                       | 150 |
|             |                             |     |                     | 1/12.5       | 19/235                             | 120                       | 27                        | 2.7     | 1620                       | 165 |
|             |                             |     |                     | 1/15         | 1/15                               | 100                       | 33                        | 3.4     | 1670                       | 170 |
|             |                             |     |                     | 1/20         | 1/20                               | 75                        | 44                        | 4.5     | 1860                       | 190 |
|             |                             |     |                     | 1/25         | 1/25                               | 60                        | 55                        | 5.6     | 2010                       | 205 |
|             |                             |     |                     | 1/30         | 1/30                               | 50                        | 67                        | 6.8     | 2110                       | 225 |
|             |                             |     |                     | 1/40         | 1/40                               | 37.5                      | 88                        | 9       | 2450                       | 250 |
|             |                             | E-8 | B                   | 1/50         | 19/940                             | 30                        | 111                       | 11.3    | 2650                       | 270 |
|             |                             |     |                     | 1/60         | 1/60                               | 25                        | 133                       | 13.6    | 2740                       | 280 |
|             |                             |     |                     | 1/80         | 1/80                               | 18.8                      | 169                       | 17.2    | 2450                       | 260 |
|             |                             |     |                     | 1/100        | 19/1880                            | 15                        | 184                       | 18.8    | 2450                       | 260 |
|             |                             |     |                     | 1/120        | 1/120                              | 12.5                      | 184                       | 18.8    | 2450                       | 260 |
|             |                             |     |                     | ※ 1/160      | 1/160                              | 9.4                       | 184                       | 18.8    | 2450                       | 260 |
|             |                             |     |                     | ※ 1/200      | 1/200                              | 7.5                       | 184                       | 18.8    | 2450                       | 260 |
|             |                             |     |                     | ※ 1/240      | 1/240                              | 6.3                       | 184                       | 18.8    | 2450                       | 260 |

Note: 1.Output O.H.L is the center of output shaft. ( 注 ) 1.容許O.H.L為輸出軸中央的位置。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.※ Marked as torque limited. 3.※標記為轉矩力受限機型。

0.4kW  
1-PHASE/3-PHASE  
單相/三相



A-H2F22 ( 6 ) T- ( 5~30 ) K-X110+400WS3F  
B-H2F22 ( 6 ) T- ( 35~120 ) K-X110+400WS3F



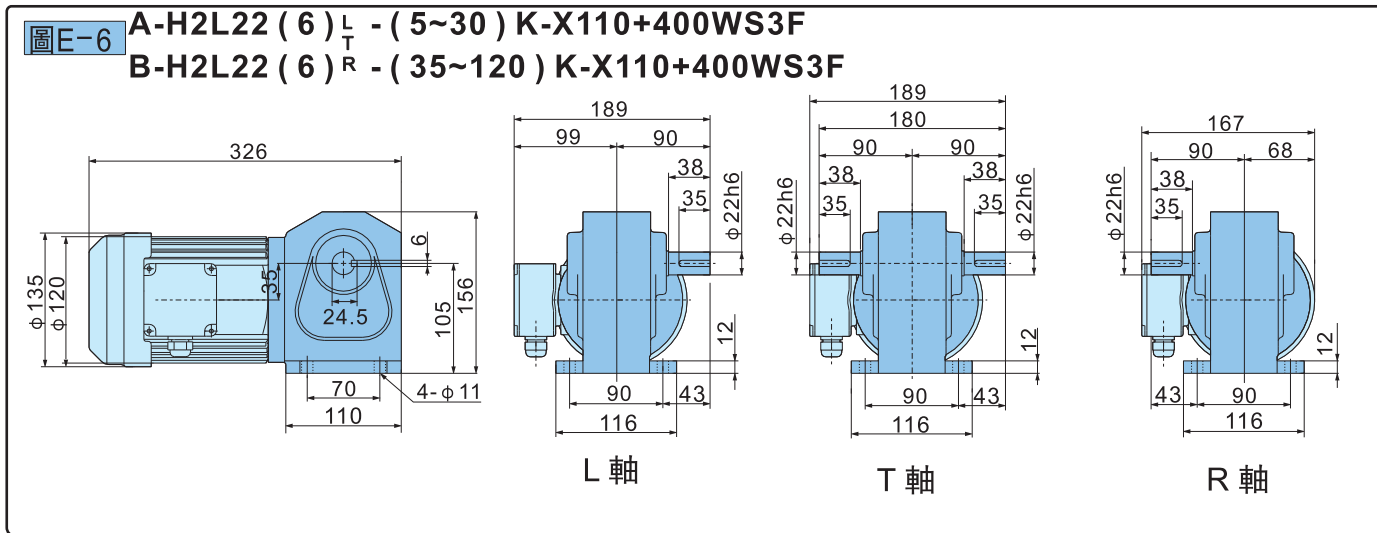
A-H2L22 ( 6 ) T- ( 5~30 ) K-X110+400WS3F  
B-H2L22 ( 6 ) T- ( 35~120 ) K-X110+400WS3F

| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.4kW       | 380                       | 50                           | 1.0                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 1.8                          | 1400                        |                          |                          |

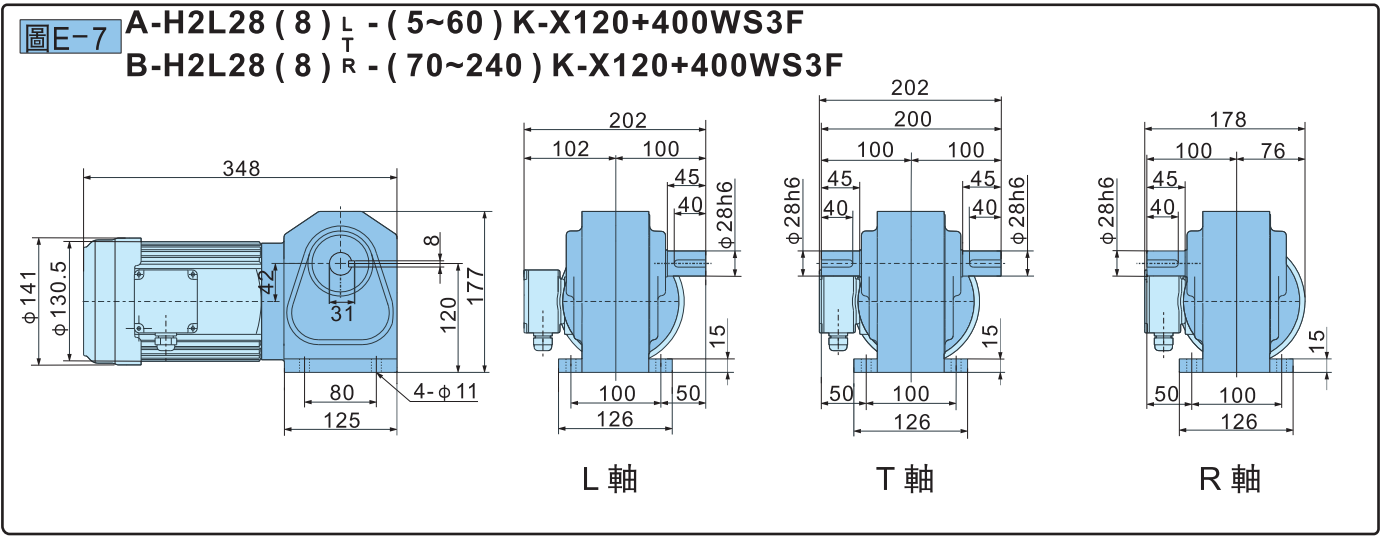
| Power<br>功率 | Dimension<br>drawing<br>尺寸圖 |     | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction Ratio<br>實際減速比<br>( 分數 ) | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------------------|-----|---------------------|--------------|------------------------------------|---------------------------|---------------------------|---------|----------------------------|-----|
|             |                             |     |                     |              |                                    |                           | N · m                     | kgf · m |                            |     |
|             |                             |     |                     |              |                                    | 50Hz                      | 50Hz                      | 50Hz    | N                          | kgf |
| 0.4kW       | Φ32<br>(10)                 | E-8 | A                   | 1/5          | 1/5                                | 300                       | 22                        | 2.2     | 1520                       | 155 |
|             |                             |     |                     | 1/7.5        | 2/15                               | 200                       | 32                        | 3.3     | 1560                       | 156 |
|             |                             |     |                     | 1/10         | 1/10                               | 150                       | 43                        | 4.4     | 2010                       | 205 |
|             |                             |     |                     | 1/12.5       | 19/235                             | 120                       | 54                        | 5.5     | 2100                       | 206 |
|             |                             |     |                     | 1/15         | 1/15                               | 100                       | 65                        | 6.6     | 2210                       | 225 |
|             |                             |     |                     | 1/20         | 1/20                               | 75                        | 86                        | 8.8     | 2450                       | 250 |
|             |                             |     |                     | 1/25         | 1/25                               | 60                        | 108                       | 11      | 2740                       | 280 |
|             |                             |     |                     | 1/30         | 1/30                               | 50                        | 128                       | 13.1    | 2940                       | 300 |
|             |                             |     |                     | 1/40         | 1/40                               | 37.5                      | 172                       | 17.5    | 3480                       | 350 |
|             |                             |     |                     | 1/50         | 1/50                               | 30                        | 215                       | 21.9    | 3820                       | 390 |
|             |                             |     |                     | 1/60         | 1/60                               | 25                        | 258                       | 26.3    | 4120                       | 420 |
|             |                             | E-9 | B                   | 1/80         | 1/80                               | 18.8                      | 177                       | 18.1    | 3430                       | 350 |
|             |                             |     |                     | 1/100        | 19/1880                            | 15                        | 221                       | 22.6    | 3820                       | 390 |
|             |                             |     |                     | 1/120        | 1/120                              | 12.5                      | 266                       | 27.1    | 4120                       | 420 |
|             |                             |     |                     | 1/160        | 1/160                              | 9.4                       | 355                       | 36.2    | 4120                       | 420 |
|             |                             |     |                     | 1/200        | 1/200                              | 7.5                       | 431                       | 44      | 4120                       | 420 |
|             |                             |     |                     | 1/240        | 1/240                              | 6.25                      | 431                       | 44      | 4120                       | 420 |

Note: 1.Output O.H.L is the center of output shaft. ( 注 ) 1.容許O.H.L為輸出軸中央的位置。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.※ Marked as torque limited. 3.※標記為轉矩力受限機型。

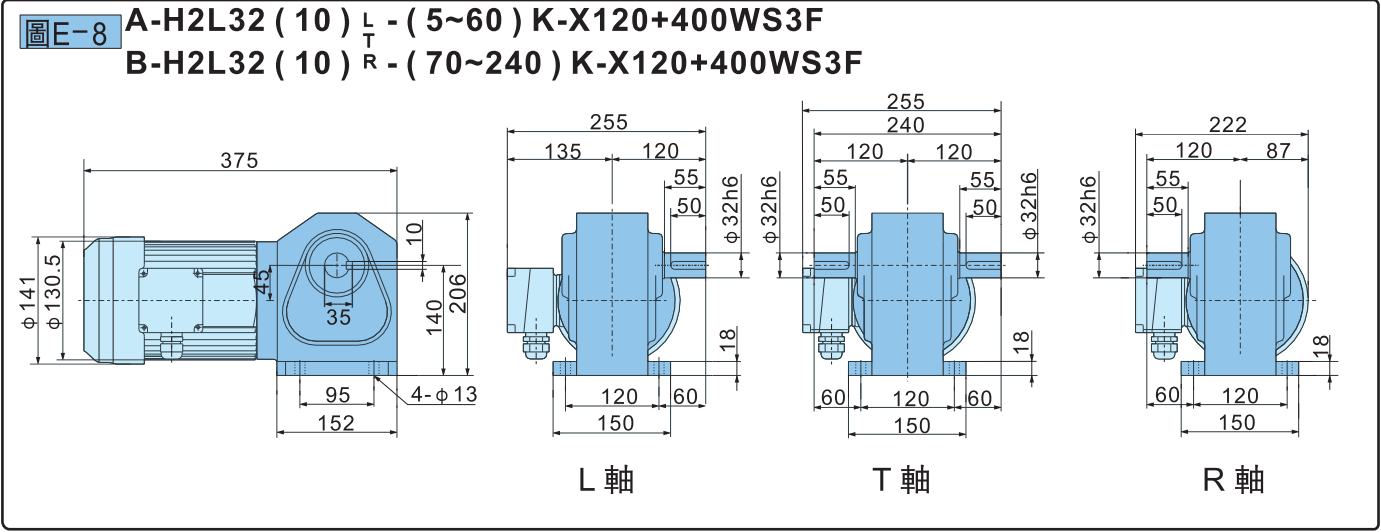
Foot mounting 底脚安裝



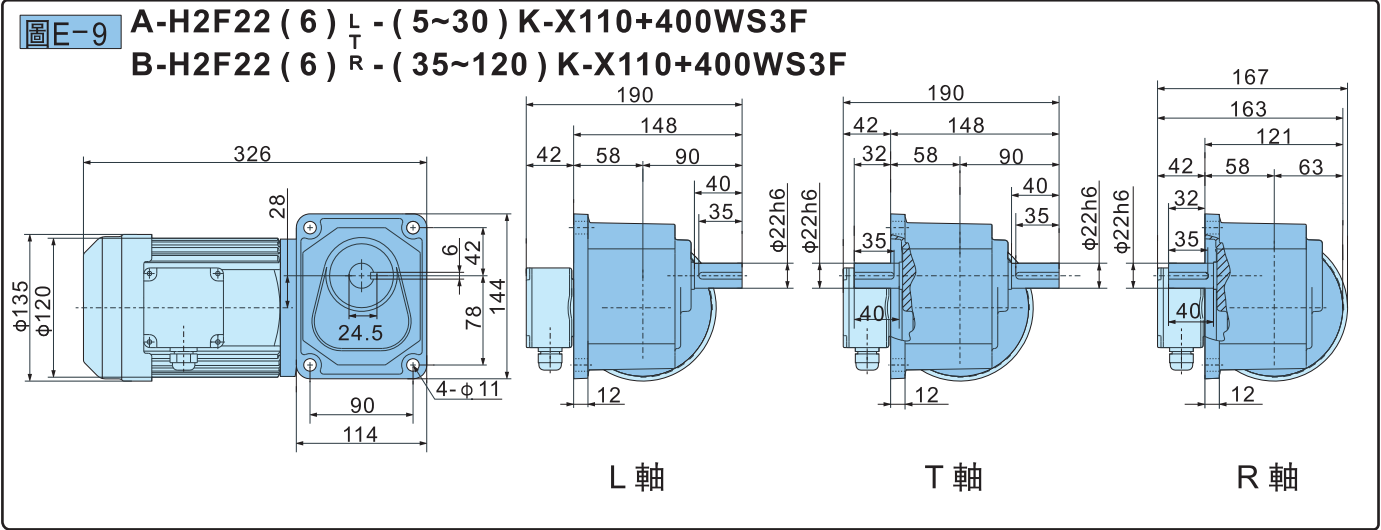
Foot mounting 底腳安裝



Foot mounting 底腳安裝



Flange mounting 法蘭安裝



0.75kW

1-PHASE/3-PHASE

單相/三相

A-H2L28 ( 8 ) T- ( 5~20 ) K  
-X120+750WS3F

B-H2L28 ( 8 ) T- ( 25~120 ) K  
-X120+750WS3F



| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.75kW      | 380                       | 50                           | 1.8                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 3.2                          | 1400                        |                          |                          |

| Power<br>功率 | Dimension<br>drawing<br>尺寸圖 | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction Ratio<br>實際減速比<br>( 分數 ) | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------------------|---------------------|--------------|------------------------------------|---------------------------|---------------------------|---------|----------------------------|-----|
|             |                             |                     |              |                                    |                           | N · m                     | kgf · m | N                          | kgf |
|             |                             |                     |              |                                    | 50Hz                      | 50Hz                      | 50Hz    |                            |     |
| 0.75<br>kW  | Φ28<br>( 8 )                | E-10                | A            | 1/5                                | 300                       | 21                        | 2.1     | 588                        | 60  |
|             |                             |                     |              | 1/7.5                              | 200                       | 31                        | 3.2     | 698                        | 71  |
|             |                             |                     |              | 1/10                               | 150                       | 41                        | 4.2     | 931                        | 95  |
|             |                             |                     |              | 1/12.5                             | 120                       | 52                        | 5.3     | 1620                       | 165 |
|             |                             |                     |              | 1/15                               | 100                       | 63                        | 6.4     | 1030                       | 105 |
|             |                             |                     |              | 1/20                               | 75                        | 83                        | 8.5     | 1180                       | 120 |
|             |                             |                     | B            | 1/25                               | 60                        | 104                       | 10.6    | 1270                       | 130 |
|             |                             |                     |              | 1/30                               | 50                        | 124                       | 12.7    | 1370                       | 140 |
|             |                             |                     |              | 1/40                               | 37.5                      | 166                       | 16.9    | 1570                       | 160 |
|             |                             |                     |              | 1/50                               | 30                        | 184                       | 18.8    | 1720                       | 175 |
|             |                             |                     |              | 1/60                               | 25                        | 184                       | 18.8    | 1760                       | 180 |
|             |                             |                     |              | *1/80                              | 18.8                      | 184                       | 18.8    | 1760                       | 180 |
|             | Φ32<br>( 10 )               | E-11                | A            | *1/100                             | 15                        | 184                       | 18.8    | 1760                       | 180 |
|             |                             |                     |              | *1/120                             | 12.5                      | 184                       | 18.8    | 1760                       | 180 |
|             |                             |                     |              | 1/5                                | 300                       | 21                        | 2.1     | 1520                       | 155 |
|             |                             |                     |              | 1/7.5                              | 200                       | 31                        | 3.2     | 1560                       | 156 |
|             |                             |                     |              | 1/10                               | 150                       | 41                        | 4.2     | 2010                       | 205 |
|             |                             |                     |              | 1/12.5                             | 120                       | 52                        | 5.3     | 2100                       | 206 |
|             |                             |                     | B            | 1/15                               | 100                       | 63                        | 6.4     | 2210                       | 225 |
|             |                             |                     |              | 1/20                               | 75                        | 104                       | 10.6    | 2450                       | 250 |
|             |                             |                     |              | 1/25                               | 60                        | 124                       | 12.7    | 2740                       | 280 |
|             |                             |                     |              | 1/30                               | 50                        | 166                       | 16.9    | 2940                       | 300 |
|             |                             |                     |              | 1/40                               | 37.5                      | 208                       | 21.2    | 3480                       | 350 |
|             |                             |                     |              | 1/50                               | 30                        | 220                       | 22      | 3820                       | 390 |
|             |                             |                     | B            | 1/60                               | 25                        | 249                       | 25.4    | 4120                       | 420 |
|             |                             |                     |              | 1/80                               | 18.8                      | 270                       | 27.6    | 3430                       | 350 |
|             |                             |                     |              | 1/100                              | 15                        | 270                       | 27.6    | 3820                       | 390 |
|             |                             |                     |              | 1/120                              | 12.5                      | 270                       | 27.6    | 4120                       | 420 |
|             |                             |                     |              | *1/160                             | 9.4                       | 270                       | 27.6    | 4120                       | 420 |
|             |                             |                     |              | *1/200                             | 7.5                       | 270                       | 27.6    | 4120                       | 420 |
|             |                             |                     |              | *1/240                             | 6.3                       | 270                       | 27.6    | 4120                       | 420 |

Note: 1. Allow O.H.L to be the value of output shaft end face at 20mm. ( 注 ) 1. 容許O.H.L為輸出軸端面20mm位置的數值。  
2. Output speed = motor/reduction ration. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ Marked as torque limited. 3. ※ 標記為轉矩力受限機型。



0.75kW

1-PHASE/3-PHASE

單相/三相

A-H2L40 (12) T- (5~60) K  
-X160+750WS3F

B-H2L40 (12) T- (70~240) K  
-X160+750WS3F

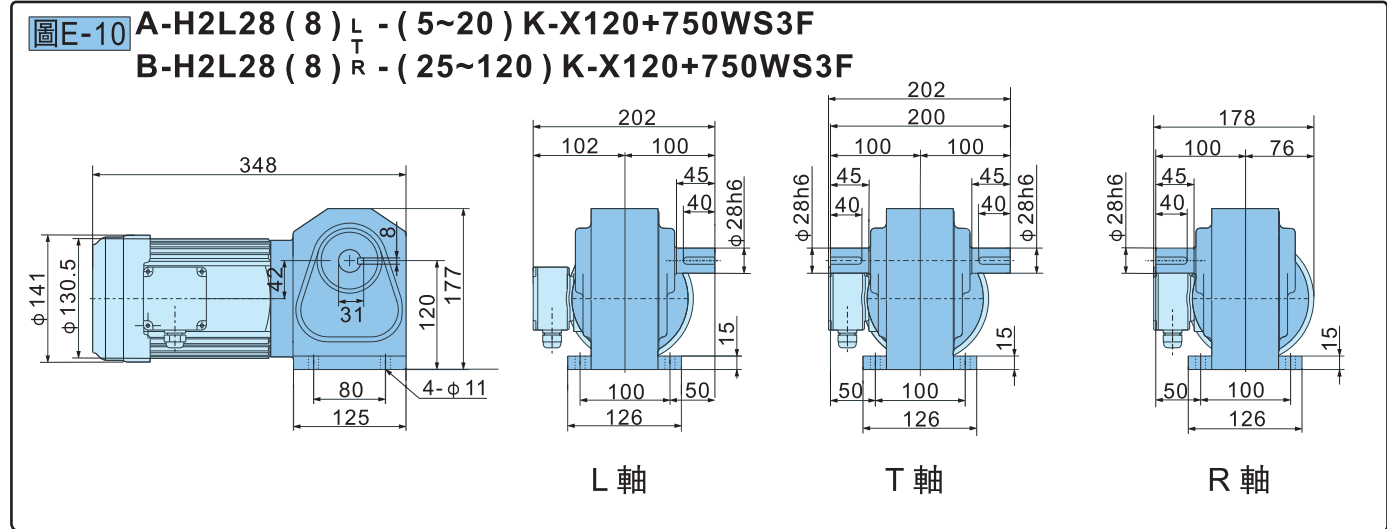


| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Frequency<br>頻率 (Hz) | Rated Currment<br>額定電流 (A) | Rated Speed<br>額定轉速 (rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|----------------------------|----------------------------|---------------------------|--------------------------|--------------------------|
| 0.75kW      | 380                     | 50                         | 1.8                        | 1400                      | B                        | 20 54                    |
|             | 220                     | 50                         | 3.2                        | 1400                      |                          |                          |

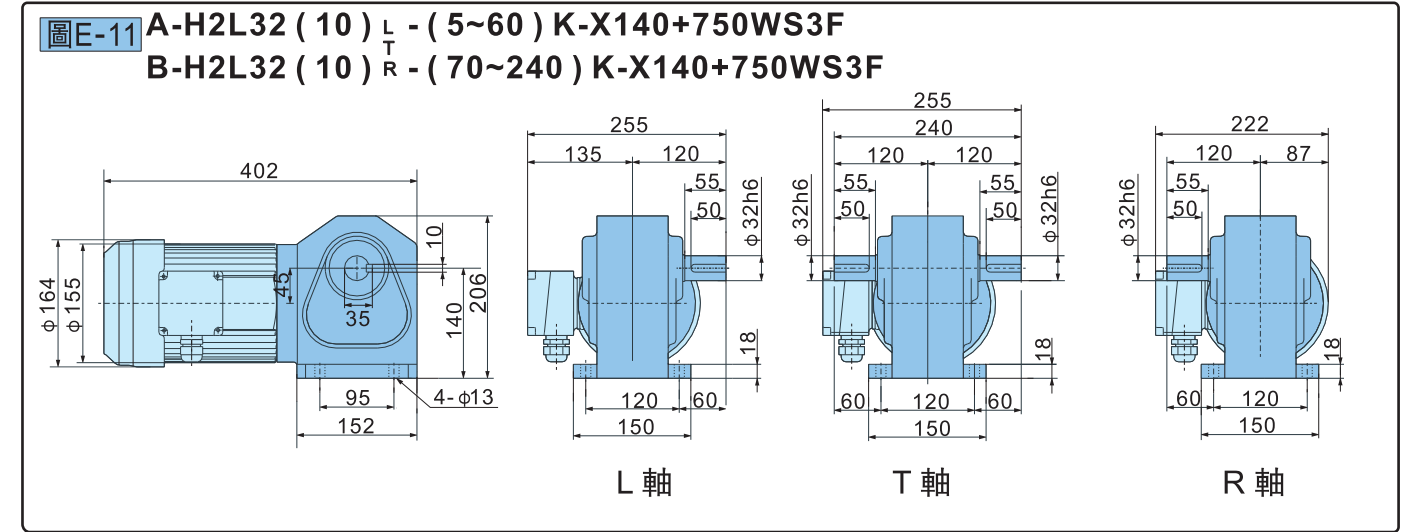
| Power<br>功率 | Dimension<br>drawing<br>尺寸圖 |      | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction Ratio<br>實際減速比<br>(分數) | Output Speed<br>輸出轉速(rpm) |      | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------------------|------|---------------------|--------------|----------------------------------|---------------------------|------|---------------------------|---------|----------------------------|-----|
|             |                             |      |                     |              |                                  | 50Hz                      | 50Hz | N · m                     | kgf · m | N                          | kgf |
|             |                             |      |                     |              |                                  |                           |      |                           |         |                            |     |
| 0.75<br>kW  | Φ40<br>(12)                 | E-12 | A                   | 1/5          | 1/5                              | 300                       | 21   | 2.1                       |         | 1960                       | 200 |
|             |                             |      |                     | 1/7.5        | 2/15                             | 200                       | 31   | 3.2                       |         | 2250                       | 230 |
|             |                             |      |                     | 1/10         | 1/10                             | 150                       | 41   | 4.2                       |         | 2450                       | 250 |
|             |                             |      |                     | 1/12.5       | 19/235                           | 120                       | 52   | 5.3                       |         | 2600                       | 265 |
|             |                             |      |                     | 1/15         | 1/15                             | 100                       | 63   | 6.4                       |         | 2740                       | 280 |
|             |                             |      |                     | 1/20         | 1/20                             | 75                        | 83   | 8.5                       |         | 2990                       | 305 |
|             |                             |      |                     | 1/25         | 29/720                           | 60                        | 104  | 10.6                      |         | 3190                       | 325 |
|             |                             |      |                     | 1/30         | 1/30                             | 50                        | 124  | 12.7                      |         | 3280                       | 335 |
|             |                             |      | B                   | 1/40         | 1/40                             | 37.5                      | 166  | 16.9                      |         | 3480                       | 355 |
|             |                             |      |                     | 1/50         | 19/940                           | 30                        | 208  | 21.2                      |         | 3480                       | 355 |
|             |                             |      |                     | 1/60         | 1/60                             | 25                        | 249  | 25.4                      |         | 3480                       | 355 |
|             |                             |      |                     | 1/80         | 1/80                             | 18.8                      | 316  | 32.2                      |         | 4750                       | 485 |
|             |                             |      |                     | 1/100        | 19/1880                          | 15                        | 395  | 40.3                      |         | 4750                       | 485 |
|             |                             |      |                     | 1/120        | 1/120                            | 12.5                      | 473  | 48.3                      |         | 4750                       | 485 |
|             |                             |      |                     | 1/160        | 1/160                            | 9.4                       | 554  | 56.5                      |         | 5190                       | 530 |
|             |                             |      |                     | 1/200        | 1/200                            | 7.5                       | 554  | 56.5                      |         | 5190                       | 530 |
|             |                             |      |                     | 1/240        | 1/240                            | 6.3                       | 554  | 56.5                      |         | 5190                       | 530 |

Note: 1.Allow O.H.L to be the value of output shaft end face at 20mm. (注) 1.容許O.H.L為輸出軸端面20mm位置的數值。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.\* Marked as torque limited. 3.\*標記為轉矩力受限機型。

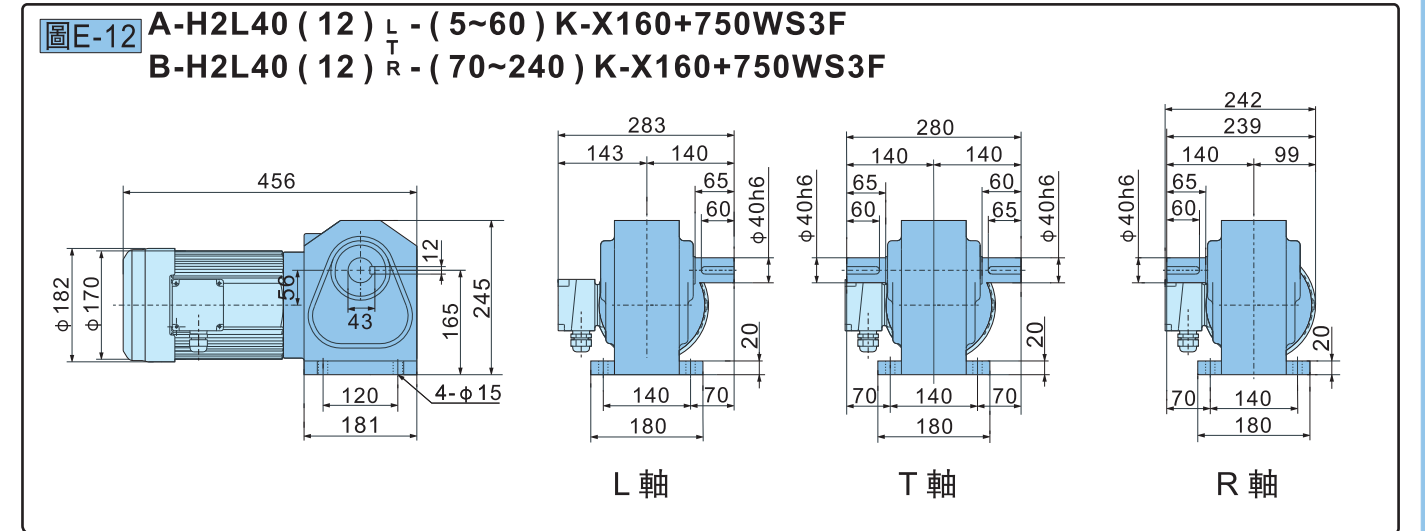
Foot mounting 底脚安裝



Foot mounting 底脚安裝



Foot mounting 底脚安裝



特性表、尺寸圖  
Feature table, size diagram

1.1kW

1-PHASE/3-PHASE

單相/三相

A-H2L40 ( 12 ) T- ( 5~60 ) K  
-X160+1100WS3F

B-H2L40 ( 12 ) T- ( 70~240 ) K  
-X160+1100WS3F

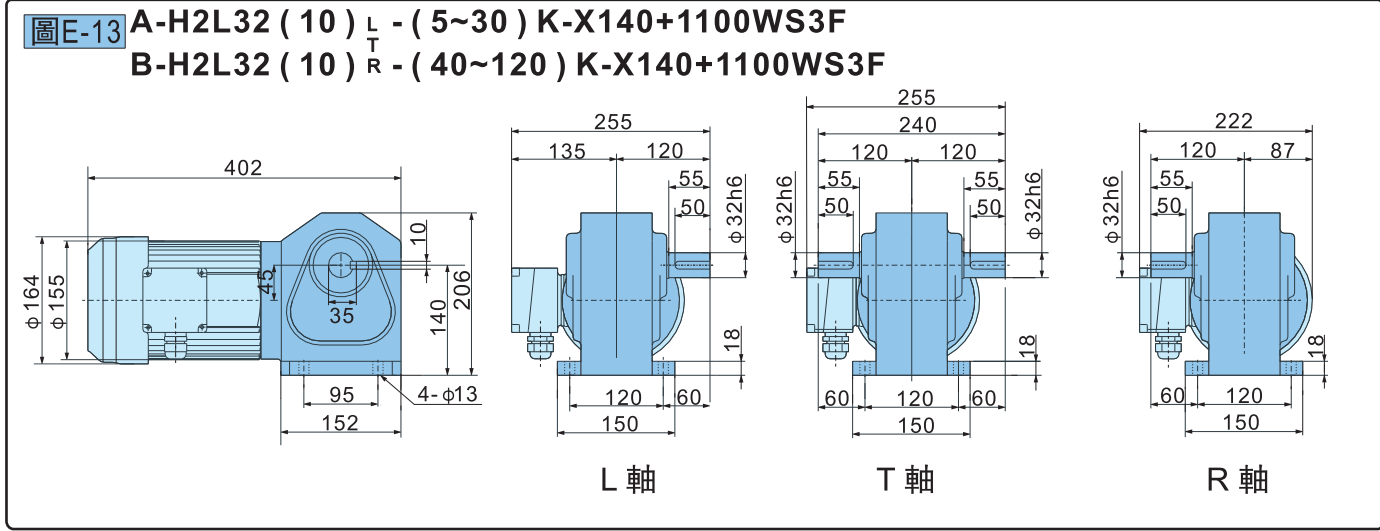


| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 1.1kW       | 380                       | 50                           | 2.5                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 4.4                          | 1400                        |                          |                          |

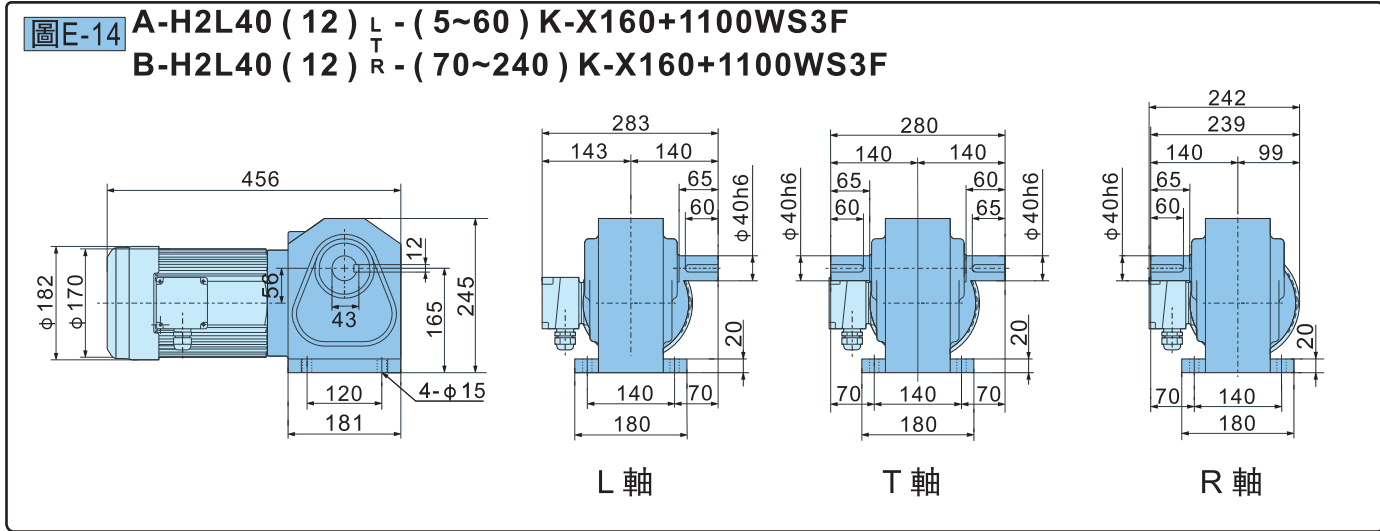
| Power<br>功率 | Dimension<br>drawing<br>尺寸圖 |      | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction Ratio<br>實際減速比<br>( 分數 ) | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------------------|------|---------------------|--------------|------------------------------------|---------------------------|---------------------------|---------|----------------------------|-----|
|             |                             |      |                     |              |                                    |                           | N · m                     | kgf · m |                            |     |
|             |                             |      |                     |              |                                    | 50Hz                      | 50Hz                      | 50Hz    | N                          | kgf |
| 1.1kW       | Φ32<br>(10)                 | E-13 | A                   | 1/5          | 1/5                                | 300                       | 30                        | 3.1     | 1960                       | 200 |
|             |                             |      |                     | 1/7.5        | 2/15                               | 200                       | 45                        | 4.6     | 2250                       | 230 |
|             |                             |      |                     | 1/10         | 1/10                               | 150                       | 60                        | 6.1     | 2450                       | 250 |
|             |                             |      |                     | 1/12.5       | 19/235                             | 120                       | 74                        | 7.5     | 2600                       | 265 |
|             |                             |      |                     | 1/15         | 1/15                               | 100                       | 89                        | 9.1     | 2750                       | 280 |
|             |                             |      |                     | 1/20         | 1/20                               | 75                        | 119                       | 12.1    | 2990                       | 305 |
|             |                             |      |                     | 1/25         | 29/720                             | 60                        | 148                       | 15.1    | 3190                       | 325 |
|             |                             |      | B                   | 1/30         | 1/30                               | 50                        | 178                       | 18.1    | 3280                       | 335 |
|             |                             |      |                     | 1/40         | 1/40                               | 37.5                      | 224                       | 22.8    | 3480                       | 355 |
|             |                             |      |                     | 1/50         | 19/940                             | 30                        | 262                       | 26.7    | 3480                       | 355 |
|             |                             |      |                     | 1/60         | 1/60                               | 25                        | 262                       | 26.7    | 3480                       | 355 |
|             |                             |      |                     | ※ 1/80       | 1/80                               | 18.8                      | 262                       | 26.7    | 3480                       | 355 |
|             |                             |      |                     | ※ 1/100      | 19/1880                            | 15                        | 262                       | 26.7    | 3480                       | 355 |
|             |                             |      |                     | ※ 1/120      | 1/120                              | 12.5                      | 262                       | 26.7    | 3480                       | 355 |
|             | Φ40<br>(12)                 | E-14 | A                   | 1/5          | 1/5                                | 300                       | 32                        | 3.22    | 2650                       | 270 |
|             |                             |      |                     | 1/7.5        | 2/15                               | 200                       | 47                        | 4.8     | 2700                       | 232 |
|             |                             |      |                     | 1/10         | 1/10                               | 150                       | 63                        | 6.4     | 3530                       | 360 |
|             |                             |      |                     | 1/12.5       | 19/235                             | 120                       | 79                        | 8       | 3675                       | 375 |
|             |                             |      |                     | 1/15         | 1/15                               | 100                       | 95                        | 9.6     | 4410                       | 450 |
|             |                             |      |                     | 1/20         | 1/20                               | 75                        | 126                       | 13      | 4700                       | 480 |
|             |                             |      |                     | 1/25         | 29/720                             | 60                        | 158                       | 16      | 5100                       | 520 |
|             |                             |      | B                   | 1/30         | 1/30                               | 50                        | 189                       | 19.3    | 5290                       | 540 |
|             |                             |      |                     | 1/40         | 1/40                               | 37.5                      | 252                       | 25.7    | 5590                       | 570 |
|             |                             |      |                     | 1/50         | 19/940                             | 30                        | 315                       | 32.1    | 5880                       | 600 |
|             |                             |      |                     | 1/60         | 1/60                               | 25                        | 378                       | 38.6    | 6080                       | 620 |
|             |                             |      |                     | 1/80         | 1/80                               | 18.8                      | 504                       | 51.5    | 5780                       | 590 |
|             |                             |      |                     | 1/100        | 19/1880                            | 15                        | 630                       | 64.3    | 6080                       | 620 |
|             |                             |      |                     | 1/120        | 1/120                              | 12.5                      | 756                       | 72.1    | 6270                       | 640 |
|             |                             |      |                     | 1/160        | 1/160                              | 9.4                       | 764                       | 78      | 6470                       | 660 |
|             |                             |      |                     | 1/200        | 1/200                              | 7.5                       | 764                       | 78      | 6660                       | 680 |
|             |                             |      |                     | 1/240        | 1/240                              | 6.3                       | 764                       | 78      | 6660                       | 680 |

Note: 1.Output O.H.L is the center of output shaft. ( 注 ) 1.容許O.H.L為輸出軸中央的位置。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.※ Marked as torque limited. 3.※標記為轉矩力受限機型。

Foot mounting 底腳安裝



Foot mounting 底腳安裝



1.5kW

1-PHASE/3-PHASE

單相/三相

A-H2L32 ( 10 ) T- ( 5~20 ) K  
-X140+1500WS3F

B-H2L32 ( 10 ) T- ( 25~120 ) K  
-X140+1500WS3F



| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Sped<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|----------------------------|--------------------------|--------------------------|
| 1.5kW       | 380                       | 50                           | 3.3                          | 1400                       | B                        | 20 54                    |
|             | 220                       | 50                           | 5.6                          | 1400                       |                          |                          |

| Power<br>功率 | Dimension<br>drawing<br>尺寸圖 |      | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction Ratio<br>實際減速比<br>( 分數 ) | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------------------|------|---------------------|--------------|------------------------------------|---------------------------|---------------------------|---------|----------------------------|-----|
|             |                             |      |                     |              |                                    |                           | N · m                     | kgf · m |                            |     |
|             |                             |      |                     |              |                                    | 50Hz                      | 50Hz                      | 50Hz    | N                          | kgf |
| 1.5kW       | Φ32<br>(10)                 | E-15 | A                   | 1/5          | 1/5                                | 300                       | 41                        | 4.2     | 1520                       | 155 |
|             |                             |      |                     | 1/7.5        | 2/15                               | 200                       | 63                        | 6.4     | 1560                       | 156 |
|             |                             |      |                     | 1/10         | 1/10                               | 150                       | 83                        | 8.5     | 2010                       | 205 |
|             |                             |      |                     | 1/12.5       | 19/235                             | 120                       | 104                       | 10.6    | 2100                       | 206 |
|             |                             |      |                     | 1/15         | 1/15                               | 100                       | 124                       | 12.7    | 2210                       | 225 |
|             |                             |      |                     | 1/20         | 1/20                               | 75                        | 166                       | 16.9    | 2450                       | 250 |
|             |                             |      |                     | 1/25         | 1/25                               | 60                        | 208                       | 21.2    | 2740                       | 280 |
|             |                             |      |                     | 1/30         | 1/30                               | 50                        | 249                       | 25.4    | 2940                       | 300 |
|             |                             |      | B                   | 1/40         | 1/40                               | 37.5                      | 270                       | 27.6    | 3480                       | 350 |
|             |                             |      |                     | 1/50         | 19/940                             | 30                        | 270                       | 27.6    | 3480                       | 390 |
|             |                             |      |                     | 1/60         | 1/60                               | 25                        | 270                       | 27.6    | 3480                       | 420 |
|             |                             |      |                     | * 1/80       | 1/80                               | 18.8                      | 270                       | 27.6    | 3480                       | 355 |
|             |                             |      |                     | * 1/100      | 19/1880                            | 15                        | 270                       | 27.6    | 3480                       | 355 |
|             |                             |      |                     | * 1/120      | 1/120                              | 12.5                      | 270                       | 27.6    | 3480                       | 355 |
|             | Φ40<br>(12)                 | E-16 | A                   | 1/5          | 1/5                                | 300                       | 43                        | 4.4     | 2650                       | 270 |
|             |                             |      |                     | 1/7.5        | 2/15                               | 200                       | 64                        | 6.6     | 2700                       | 232 |
|             |                             |      |                     | 1/10         | 1/10                               | 150                       | 86                        | 8.8     | 3530                       | 360 |
|             |                             |      |                     | 1/12.5       | 19/235                             | 120                       | 106                       | 10.9    | 3675                       | 375 |
|             |                             |      |                     | 1/15         | 1/15                               | 100                       | 128                       | 13.1    | 4410                       | 450 |
|             |                             |      |                     | 1/20         | 1/20                               | 75                        | 172                       | 17.5    | 4700                       | 480 |
|             |                             |      |                     | 1/25         | 1/25                               | 60                        | 215                       | 21.9    | 5100                       | 520 |
|             |                             |      |                     | 1/30         | 1/30                               | 50                        | 258                       | 26.3    | 5290                       | 540 |
|             |                             |      | B                   | 1/40         | 1/40                               | 37.5                      | 344                       | 35.1    | 5590                       | 570 |
|             |                             |      |                     | 1/50         | 19/940                             | 30                        | 429                       | 43.8    | 5880                       | 600 |
|             |                             |      |                     | 1/60         | 1/60                               | 25                        | 515                       | 52.6    | 6080                       | 620 |
|             |                             |      |                     | 1/80         | 1/80                               | 18.8                      | 332                       | 33.9    | 5780                       | 590 |
|             |                             |      |                     | 1/100        | 19/1880                            | 15                        | 416                       | 42.4    | 6080                       | 620 |
|             |                             |      |                     | 1/120        | 1/120                              | 12.5                      | 498                       | 50.8    | 6270                       | 640 |
|             |                             |      |                     | * 1/160      | 1/160                              | 9.4                       | 498                       | 50.8    | 6270                       | 640 |
|             |                             |      |                     | * 1/200      | 1/200                              | 7.5                       | 498                       | 50.8    | 6270                       | 640 |
|             |                             |      |                     | * 1/240      | 1/240                              | 6.3                       | 498                       | 50.8    | 6270                       | 640 |

Note: 1.Output O.H.L is the center of output shaft. ( 注 ) 1.容許O.H.L為輸出軸中央的位置。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.\* Marked as torque limited. 3.\*標記為轉矩力受限機型。

1.5kW

1-PHASE/3-PHASE

單相/三相

A-H2L40 ( 12 ) T- ( 5~60 ) K  
-X160+1500WS3F

B-H2L40 ( 12 ) T- ( 70~240 ) K  
-X160+1500WS3F

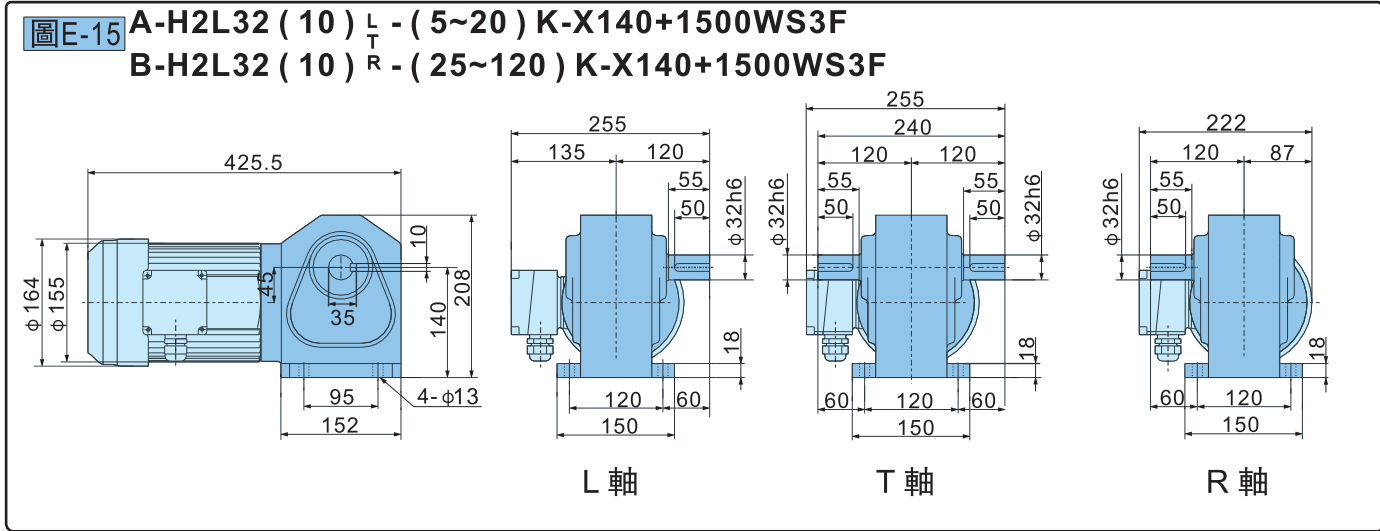


| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 1.5kW       | 380                       | 50                           | 3.3                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 5.6                          | 1400                        |                          |                          |

| Power<br>功率 | Dimension<br>drawing<br>尺寸圖 |      | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction Ratio<br>實際減速比<br>( 分數 ) | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|-----------------------------|------|---------------------|--------------|------------------------------------|---------------------------|---------------------------|---------|----------------------------|-----|
|             |                             |      |                     |              |                                    |                           | N · m                     | kgf · m |                            |     |
|             |                             |      |                     |              |                                    | 50Hz                      | 50Hz                      | 50Hz    | N                          | kgf |
| 1.5kW       | Φ50<br>(14)                 | E-17 | A                   | 1/5          | 1/5                                | 300                       | 63                        | 6.4     | 3920                       | 400 |
|             |                             |      |                     | 1/7.5        | 2/15                               | 200                       | 64                        | 6.6     | 2700                       | 232 |
|             |                             |      |                     | 1/10         | 1/10                               | 150                       | 126                       | 12.9    | 4410                       | 450 |
|             |                             |      |                     | 1/12.5       | 4/49                               | 120                       | 106                       | 10.9    | 3675                       | 375 |
|             |                             |      |                     | 1/15         | 1/15                               | 100                       | 189                       | 19.3    | 4900                       | 500 |
|             |                             |      |                     | 1/20         | 14/275                             | 75                        | 252                       | 25.7    | 5490                       | 560 |
|             |                             |      |                     | 1/25         | 11/280                             | 60                        | 315                       | 32.1    | 6080                       | 620 |
|             |                             |      |                     | 1/30         | 2/59                               | 50                        | 378                       | 38.6    | 6570                       | 670 |
|             |                             |      |                     | 1/40         | 1/40                               | 37.5                      | 487                       | 49.7    | 7060                       | 720 |
|             |                             |      |                     | 1/50         | 1/49                               | 30                        | 609                       | 62.1    | 7550                       | 770 |
|             |                             |      |                     | 1/60         | 1/60                               | 25                        | 731                       | 74.6    | 8130                       | 830 |
|             |                             |      | B                   | 1/80         | 1/80                               | 18.8                      | 515                       | 52.6    | 8530                       | 870 |
|             |                             |      |                     | 1/100        | 19/1880                            | 15                        | 664                       | 67.8    | 8820                       | 900 |
|             |                             |      |                     | 1/120        | 1/120                              | 12.5                      | 830                       | 84.7    | 9020                       | 920 |
|             |                             |      |                     | 1/160        | 1/160                              | 9.4                       | 1000                      | 102     | 9310                       | 950 |
|             |                             |      |                     | 1/200        | 1/200                              | 7.5                       | 1230                      | 125     | 9510                       | 970 |
|             |                             |      |                     | 1/240        | 1/240                              | 6.3                       | 1230                      | 125     | 9510                       | 970 |

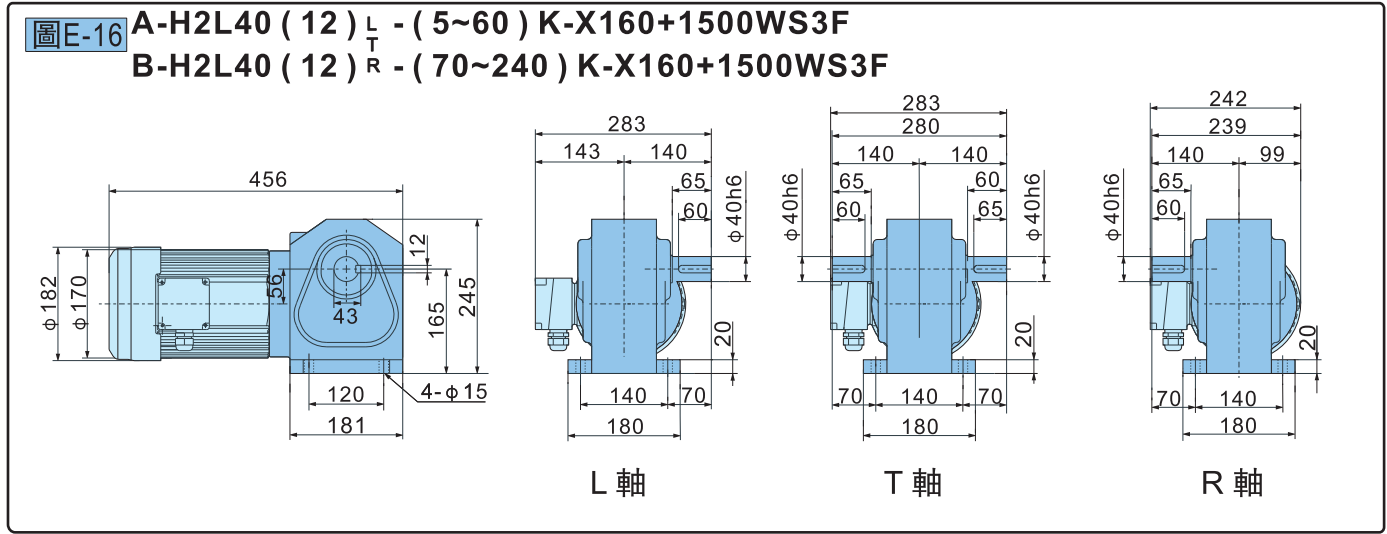
Note: 1.Output O.H.L is the center of output shaft. ( 注 ) 1.容許O.H.L為輸出軸中央的位置。  
2.Output speed = motor/reduction ration. 2.輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3.\* Marked as torque limited. 3.\*標記為轉矩力受限機型。

Foot mounting 底脚安裝

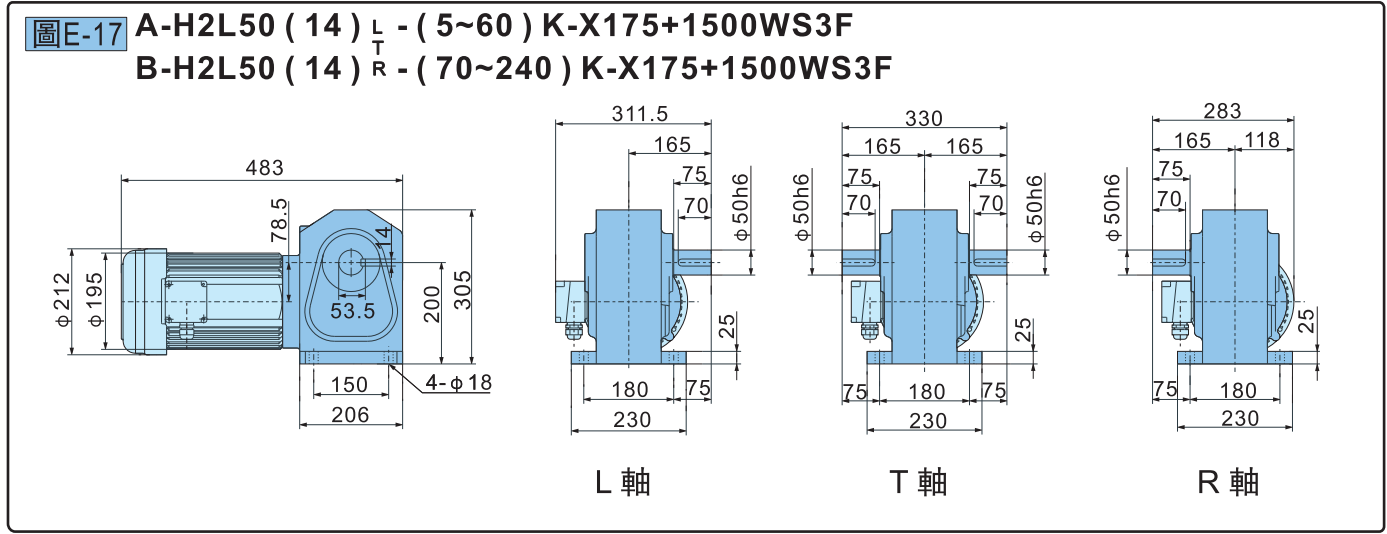




Foot mounting 底腳安裝



Foot mounting 底腳安裝



2.2kW

1-PHASE/3-PHASE  
單相/三相

A-H2L40 ( 12 ) T- ( 5~20 ) K  
-X160+2200WS3F

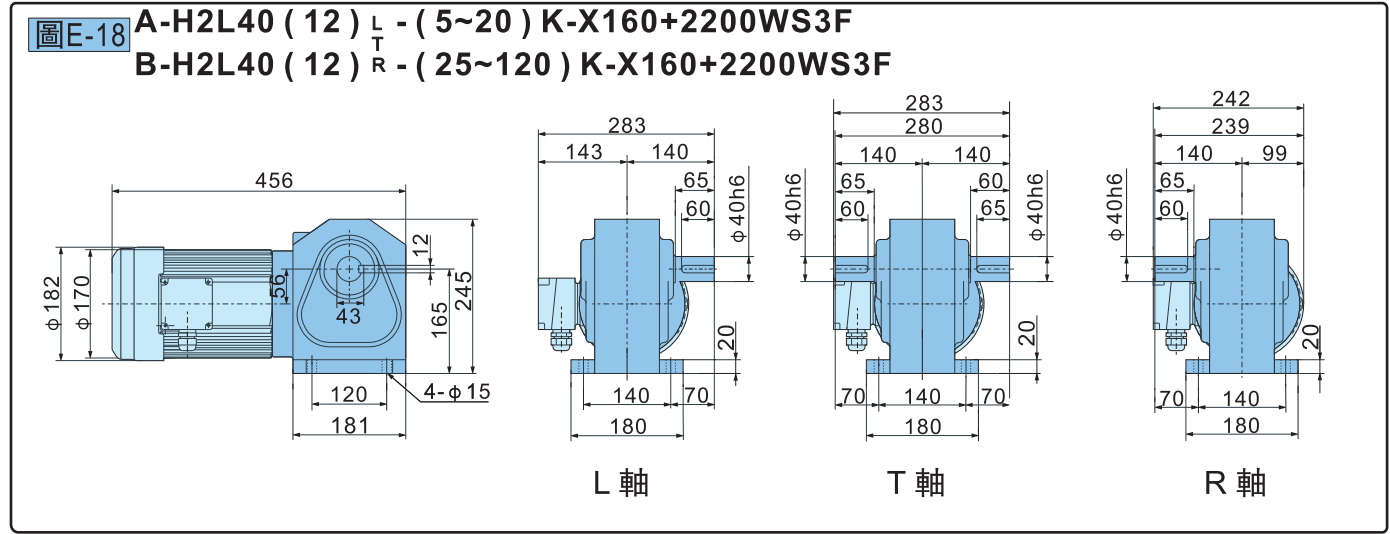
B-H2L40 ( 12 ) T- ( 25~120 ) K  
-X160+2200WS3F



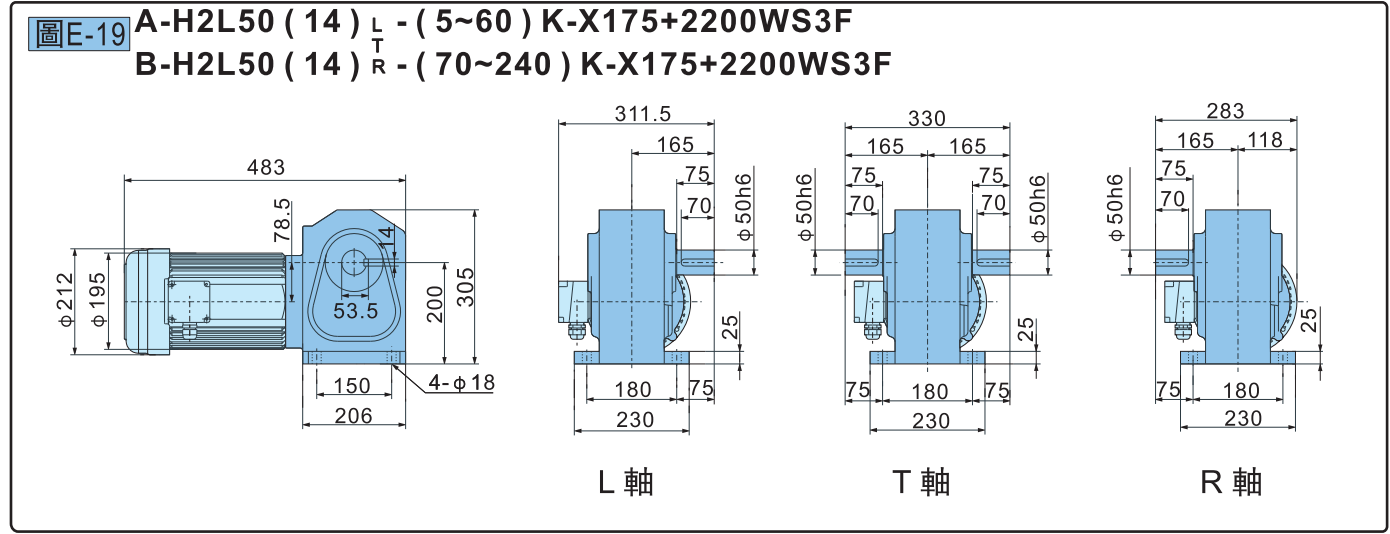
| Power<br>功 率 |                             | Rated Voltage<br>電 壓（V） |                     | Rated Frequency<br>頻 率（Hz） |                                  | Rated Currment<br>額定電流（A） |                           | Rated Speed<br>額定轉速（rpm） |                            | Insucation class<br>絕緣等級 |  | Protection class<br>防護等級 |  |
|--------------|-----------------------------|-------------------------|---------------------|----------------------------|----------------------------------|---------------------------|---------------------------|--------------------------|----------------------------|--------------------------|--|--------------------------|--|
| 2.2kW        |                             | 380                     |                     | 50                         |                                  | 4.6                       |                           | 1400                     |                            | B                        |  | 20 54                    |  |
|              |                             | 220                     |                     | 50                         |                                  | 8.0                       |                           | 1400                     |                            |                          |  |                          |  |
|              |                             |                         |                     |                            |                                  |                           |                           |                          |                            |                          |  |                          |  |
| Power<br>功 率 | Dimension<br>drawing<br>尺寸圖 |                         | Gear<br>case<br>齒輪箱 | Ratio<br>減速比               | Reduction Ratio<br>實際減速比<br>（分數） | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |                          | Output O.H.L<br>輸出軸容許O.H.L |                          |  |                          |  |
|              |                             |                         |                     |                            |                                  |                           | N・m                       | kgf・m                    |                            |                          |  |                          |  |
|              |                             |                         |                     |                            |                                  | 50Hz                      | 50Hz                      | 50Hz                     | N                          | kgf                      |  |                          |  |
| 2.2kW        | Φ40<br>(12)                 | E-18                    | A                   | 1/5                        | 1/5                              | 300                       | 61                        | 6.2                      | 2650                       | 270                      |  |                          |  |
|              |                             |                         |                     | 1/7.5                      | 2/15                             | 200                       | 91                        | 9.5                      | 2700                       | 232                      |  |                          |  |
|              |                             |                         |                     | 1/10                       | 1/10                             | 150                       | 122                       | 12.4                     | 3530                       | 360                      |  |                          |  |
|              |                             |                         |                     | 1/12.5                     | 19/235                           | 120                       | 152                       | 15.5                     | 3675                       | 375                      |  |                          |  |
|              |                             |                         |                     | 1/15                       | 1/15                             | 100                       | 182                       | 18.6                     | 4410                       | 450                      |  |                          |  |
|              |                             |                         |                     | 1/20                       | 1/20                             | 75                        | 244                       | 24.9                     | 4700                       | 480                      |  |                          |  |
|              |                             |                         | B                   | 1/25                       | 1/25                             | 60                        | 305                       | 31.1                     | 5100                       | 520                      |  |                          |  |
|              |                             |                         |                     | 1/30                       | 1/30                             | 50                        | 366                       | 37.3                     | 5290                       | 540                      |  |                          |  |
|              |                             |                         |                     | 1/40                       | 1/40                             | 37.5                      | 487                       | 49.7                     | 5590                       | 570                      |  |                          |  |
|              |                             |                         |                     | 1/50                       | 19/940                           | 30                        | 554                       | 56.5                     | 5880                       | 600                      |  |                          |  |
|              |                             |                         |                     | 1/60                       | 1/60                             | 25                        | 554                       | 56.5                     | 6080                       | 620                      |  |                          |  |
|              |                             |                         |                     | * 1/80                     | 1/80                             | 18.8                      | 554                       | 56.5                     | 5780                       | 590                      |  |                          |  |
|              | Φ50<br>(14)                 | E-19                    | A                   | * 1/100                    | 1/100                            | 15                        | 554                       | 56.5                     | 5780                       | 590                      |  |                          |  |
|              |                             |                         |                     | * 1/120                    | 1/120                            | 12.5                      | 554                       | 56.5                     | 5780                       | 590                      |  |                          |  |
|              |                             |                         |                     | 1/5                        | 1/5                              | 300                       | 63.7                      | 6.5                      | 3920                       | 400                      |  |                          |  |
|              |                             |                         |                     | 1/7.5                      | 2/15                             | 200                       | 95.6                      | 9.7                      | 2700                       | 232                      |  |                          |  |
|              |                             |                         |                     | 1/10                       | 1/10                             | 150                       | 127.5                     | 13                       | 4410                       | 450                      |  |                          |  |
|              |                             |                         |                     | 1/12.5                     | 4/49                             | 120                       | 159                       | 16.2                     | 3675                       | 375                      |  |                          |  |
|              |                             |                         |                     | 1/15                       | 1/15                             | 100                       | 191                       | 19.4                     | 4900                       | 500                      |  |                          |  |
|              |                             |                         |                     | 1/20                       | 1/20                             | 75                        | 251.2                     | 25.6                     | 5490                       | 560                      |  |                          |  |
|              |                             |                         |                     | 1/25                       | 1/25                             | 60                        | 319                       | 32.5                     | 6080                       | 620                      |  |                          |  |
|              |                             |                         |                     | 1/30                       | 1/30                             | 50                        | 382                       | 39                       | 6570                       | 670                      |  |                          |  |
|              |                             |                         |                     | 1/40                       | 1/40                             | 37.5                      | 503                       | 51                       | 7060                       | 720                      |  |                          |  |
|              |                             |                         |                     | 1/50                       | 1/49                             | 30                        | 631                       | 64                       | 7550                       | 770                      |  |                          |  |
|              |                             |                         | 1/60                | 1/60                       | 25                               | 765                       | 78                        | 8130                     | 830                        |                          |  |                          |  |
|              |                             |                         | B                   | 1/80                       | 1/80                             | 18.8                      | 1020                      | 104                      | 8530                       | 870                      |  |                          |  |
|              |                             |                         |                     | 1/100                      | 1/100                            | 15                        | 1030                      | 105                      | 8820                       | 900                      |  |                          |  |
|              |                             |                         |                     | 1/120                      | 1/120                            | 12.5                      | 1030                      | 105                      | 9020                       | 920                      |  |                          |  |
|              |                             |                         |                     | * 1/160                    | 1/160                            | 9.4                       | 1030                      | 105                      | 9020                       | 920                      |  |                          |  |
|              |                             |                         |                     | * 1/200                    | 1/200                            | 7.5                       | 1030                      | 105                      | 9020                       | 920                      |  |                          |  |
|              |                             |                         |                     | * 1/240                    | 1/240                            | 6.3                       | 1030                      | 105                      | 9020                       | 920                      |  |                          |  |

Note: 1. Output O.H.L is the center of output shaft. ( 注 ) 1. 容許O.H.L為輸出軸中央的位置。  
2. Output speed = motor/reduction ration. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ Marked as torque limited. 3. ※ 標記為轉矩力受限機型。

Foot mounting 底腳安裝



Foot mounting 底腳安裝



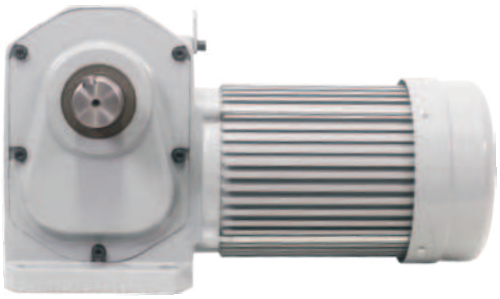
3.7kW

1-PHASE/3-PHASE

單相/三相

A-H2L50 ( 14 )<sub>T</sub> - ( 5~30 ) K  
-X175+3700WS3F

B-H2L50 ( 14 )<sub>T</sub> - ( 35~120 ) K  
-X175+3700WS3F

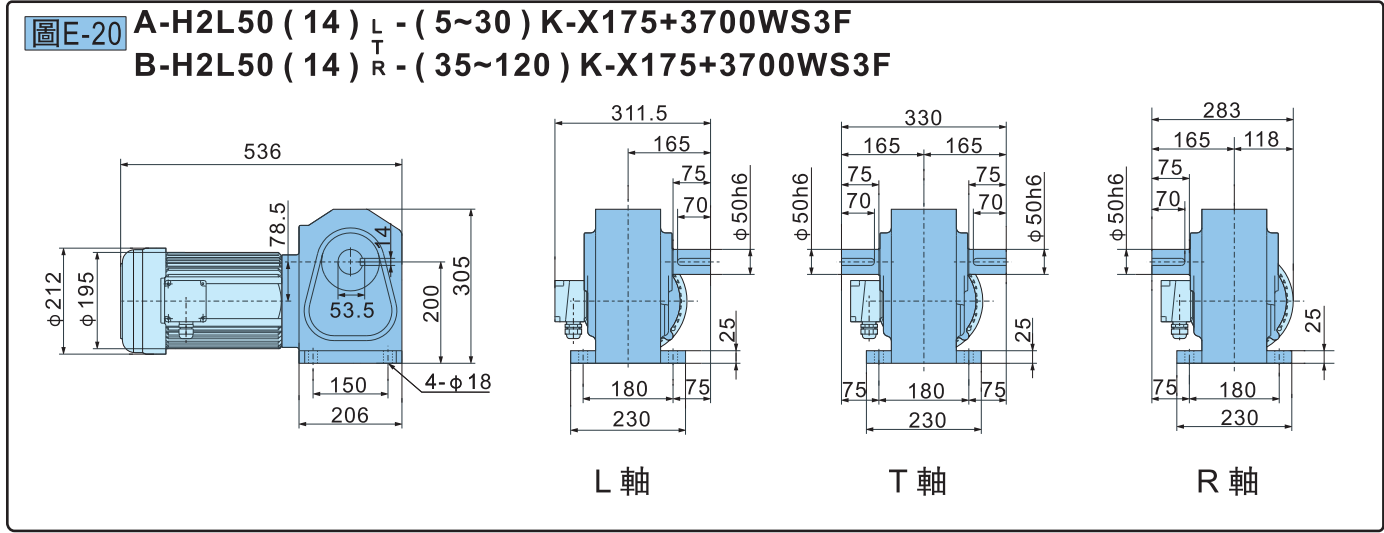


| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 3.7kW       | 380                       | 50                           | 7.5                          | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 10.8                         | 1400                        |                          |                          |

| Power<br>功 率 | Dimension<br>drawing<br>尺寸圖 |      | Gear<br>case<br>齒輪箱 | Ratio<br>減速比 | Reduction Ratio<br>實際減速比<br>(分數 ) | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|--------------|-----------------------------|------|---------------------|--------------|-----------------------------------|---------------------------|---------------------------|---------|----------------------------|-----|
|              |                             |      |                     |              |                                   |                           | N · m                     | kgf · m |                            |     |
|              |                             |      |                     |              |                                   | 50Hz                      | 50Hz                      | 50Hz    | N                          | kgf |
| 3.7kW        | Φ50<br>(14)                 | E-20 | A                   | 1/5          | 1/5                               | 300                       | 102                       | 10.4    | 3920                       | 400 |
|              |                             |      |                     | 1/7.5        | 2/15                              | 200                       | 154                       | 15.7    | 2700                       | 232 |
|              |                             |      |                     | 1/10         | 1/10                              | 150                       | 205                       | 21      | 4410                       | 450 |
|              |                             |      |                     | 1/12.5       | 4/49                              | 120                       | 256                       | 26      | 3675                       | 375 |
|              |                             |      |                     | 1/15         | 1/15                              | 30                        | 307                       | 31.4    | 4900                       | 500 |
|              |                             |      |                     | 1/20         | 1/20                              | 75                        | 410                       | 41.8    | 5490                       | 560 |
|              |                             |      |                     | 1/25         | 1/25                              | 60                        | 512                       | 52.3    | 6080                       | 620 |
|              |                             |      |                     | 1/30         | 1/30                              | 50                        | 615                       | 62.7    | 6570                       | 670 |
|              |                             |      | B                   | 1/40         | 1/40                              | 37.5                      | 820                       | 83.7    | 7060                       | 720 |
|              |                             |      |                     | 1/50         | 1/49                              | 30                        | 1025                      | 104.6   | 7550                       | 770 |
|              |                             |      |                     | 1/60         | 1/60                              | 25                        | 1230                      | 25.5    | 8130                       | 830 |
|              |                             |      |                     | ※ 1/80       | 1/80                              | 18.8                      | 1264                      | 129     | 8530                       | 870 |
|              |                             |      |                     | ※ 1/100      | 1/100                             | 15                        | 1264                      | 129     | 8530                       | 870 |
|              |                             |      |                     | ※ 1/120      | 1/120                             | 12.5                      | 1264                      | 129     | 8530                       | 870 |

Note: 1. Output O.H.L is the center of output shaft. ( 注 ) 1. 容許O.H.L為輸出軸中央的位置。  
2. Output speed = motor/reduction ration. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ Marked as torque limited. 3. ※ 標記為轉矩力受限機型。

Foot mounting 底腳安裝





H2L32 ( 10 ) T- ( 250~1600 ) K  
-X101+100WS3F

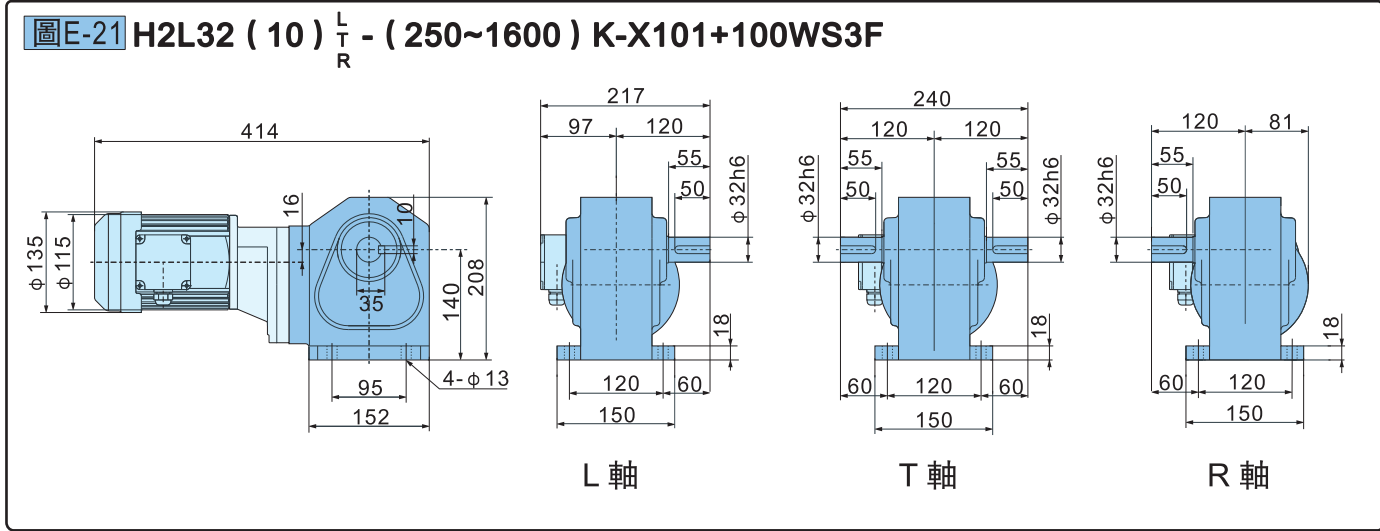
| Power<br>功率 | Rated Voltage<br>電壓 ( V ) | Rated Frequency<br>頻率 ( Hz ) | Rated Currment<br>額定電流 ( A ) | Rated Speed<br>額定轉速 ( rpm ) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|---------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|
| 0.1kW       | 380                       | 50                           | 0.31                         | 1400                        | B                        | 20 54                    |
|             | 220                       | 50                           | 0.52                         | 1400                        |                          |                          |
| 0.2kW       | 380                       | 50                           | 0.56                         | 1400                        |                          |                          |
|             | 220                       | 50                           | 0.92                         | 1400                        |                          |                          |
| 0.4kW       | 380                       | 50                           | 1.0                          | 1400                        |                          |                          |
|             | 220                       | 50                           | 1.8                          | 1400                        |                          |                          |
| 0.75kW      | 380                       | 50                           | 1.8                          | 1400                        |                          |                          |
|             | 220                       | 50                           | 3.2                          | 1400                        |                          |                          |

| Power<br>功率 | Overall Dimensions<br>外形圖 |      | Ratio<br>減速比 | Reduction Ratio<br>實際減速比<br>( 分數 ) | Output Speed<br>輸出轉速(rpm) | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |     |
|-------------|---------------------------|------|--------------|------------------------------------|---------------------------|---------------------------|---------|----------------------------|-----|
|             |                           |      |              |                                    |                           | N · m                     | kgf · m | N                          | kgf |
|             |                           |      |              |                                    | 50Hz                      | 50Hz                      | 50Hz    | N                          | kgf |
| 0.1kW       | Φ32<br>(10)               | E-21 | 1/250        | 29/7200                            | 6                         | 145                       | 14.8    | 3630                       | 370 |
|             |                           |      | 1/300        | 1/300                              | 5                         | 174                       | 17.7    | 3630                       | 370 |
|             |                           |      | 1/375        | 23/860                             | 4                         | 217                       | 22      | 3630                       | 370 |
|             |                           |      | 1/400        | 1/400                              | 3.8                       | 232                       | 23.7    | 3630                       | 370 |
|             |                           |      | 1/500        | 11/5400                            | 3                         | 290                       | 29.6    | 3630                       | 370 |
|             |                           |      | 1/600        | 9/5500                             | 2.5                       | 348                       | 35.5    | 3630                       | 370 |
|             |                           |      | 1/800        | 1/800                              | 1.9                       | 372                       | 38      | 3630                       | 370 |
|             |                           |      | 1/1000       | 19/18400                           | 1.5                       | 372                       | 38      | 3630                       | 370 |
|             |                           |      | 1/1200       | 2/2450                             | 1.3                       | 372                       | 38      | 3630                       | 370 |
|             |                           |      | 1/1600       | 1/1600                             | 0.9                       | 372                       | 38      | 3630                       | 370 |
| 0.2kW       | Φ32<br>(10)               | E-22 | 1/250        | 29/7200                            | 6                         | 290                       | 29.5    | 3630                       | 370 |
|             |                           |      | 1/300        | 1/300                              | 5                         | 294                       | 30      | 3820                       | 390 |
|             |                           |      | 1/375        | 23/8600                            | 4                         | 368                       | 37      | 4120                       | 420 |
|             |                           |      | 1/400        | 1/400                              | 3.8                       | 431                       | 43      | 4120                       | 420 |
|             |                           |      | 1/500        | 11/5400                            | 3                         | 490                       | 50      | 4120                       | 420 |
| 0.4kW       | Φ40<br>(12)               | E-23 | 1/250        | 1/250                              | 6                         | 245                       | 25      | 6760                       | 690 |
|             |                           |      | 1/300        | 1/300                              | 5                         | 294                       | 30      | 6760                       | 690 |
|             |                           |      | 1/400        | 1/400                              | 3.8                       | 392                       | 40      | 6760                       | 690 |
|             |                           |      | 1/500        | 19/9400                            | 3                         | 490                       | 50      | 6760                       | 960 |
|             |                           |      | 1/600        | 1/600                              | 2.5                       | 588                       | 60      | 6760                       | 690 |
|             |                           |      | 1/800        | 1/800                              | 1.9                       | 735                       | 75      | 6760                       | 690 |
|             |                           |      | 1/1000       | 19/18800                           | 1.5                       | 764                       | 78      | 6760                       | 690 |
|             |                           |      | 1/1200       | 1/1200                             | 1.3                       | 764                       | 78      | 6760                       | 690 |
|             |                           |      | 1/1600       | 1/1600                             | 0.9                       | 764                       | 78      | 6760                       | 690 |

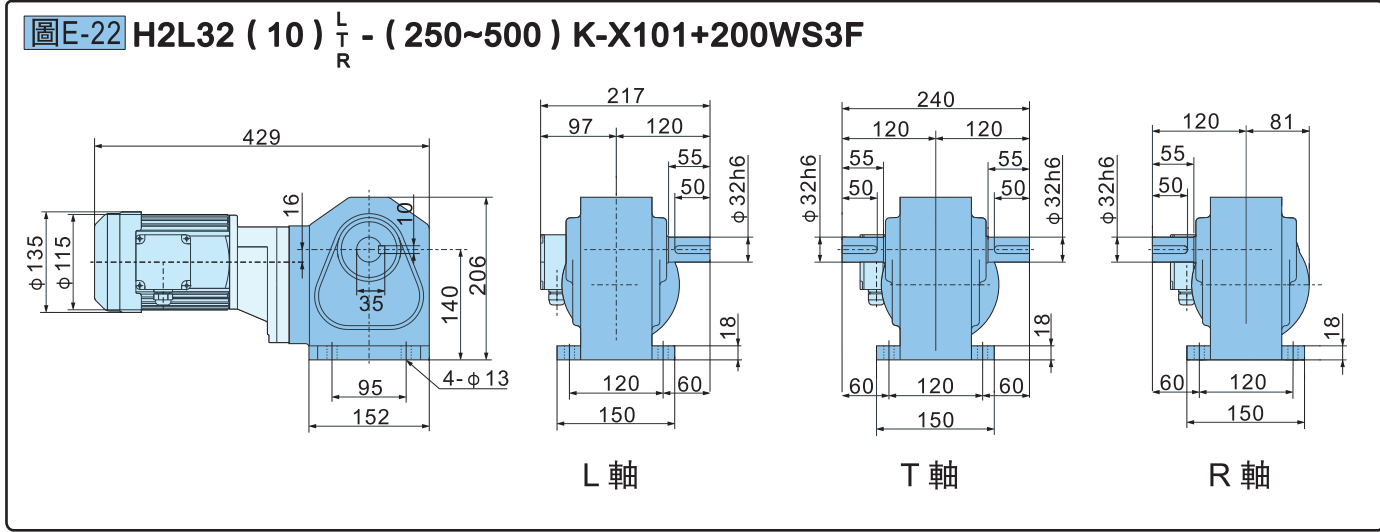
| Power<br>功 率 | Overall Dimensions<br>外形圖 |      | Ratio<br>減速比 | Reduction Ratio<br>實際減速比<br>( 分數 ) | Output Speed<br>輸出轉速(rpm)<br>50Hz | Output Torque<br>輸出軸容許轉矩力 |         | Output O.H.L<br>輸出軸容許O.H.L |      |
|--------------|---------------------------|------|--------------|------------------------------------|-----------------------------------|---------------------------|---------|----------------------------|------|
|              |                           |      |              |                                    |                                   | N · m                     | kgf · m | N                          | kgf  |
|              |                           |      |              |                                    |                                   | 50Hz                      | 50Hz    | N                          | kgf  |
| 0.75<br>kW   | Φ50<br>(14)               | E-24 | 1/250        | 1/250                              | 6                                 | 1030                      | 105     | 9800                       | 1000 |
|              |                           |      | 1/300        | 1/300                              | 5                                 | 1030                      | 105     | 9800                       | 1000 |
|              |                           |      | 1/400        | 1/400                              | 3.8                               | 1030                      | 105     | 9800                       | 1000 |
|              |                           |      | 1/500        | 1/490                              | 3                                 | 1030                      | 105     | 9800                       | 1000 |
|              |                           |      | 1/600        | 1/600                              | 2.5                               | 1030                      | 105     | 9800                       | 1000 |
|              |                           |      | 1/800        | 1/800                              | 1.9                               | 1030                      | 105     | 9800                       | 1000 |
|              |                           |      | 1/1000       | 1/980                              | 1.5                               | 1030                      | 105     | 9800                       | 1000 |
|              |                           |      | 1/1200       | 1/1200                             | 1.3                               | 1030                      | 105     | 9800                       | 1000 |
|              |                           |      | 1/1600       | 1/1600                             | 0.9                               | 1030                      | 105     | 9800                       | 1000 |

Note: 1. Output O.H.L is the center of output shaft. ( 注 ) 1. 容許O.H.L為輸出軸中央的位置。  
2. Output speed = motor/reduction ration. 2. 輸出軸轉速是電機同步轉速除以標稱減速比的值。  
3. ※ Marked as torque limited. 3. ※ 標記為轉矩力受限機型。

Foot mounting 底腳安裝

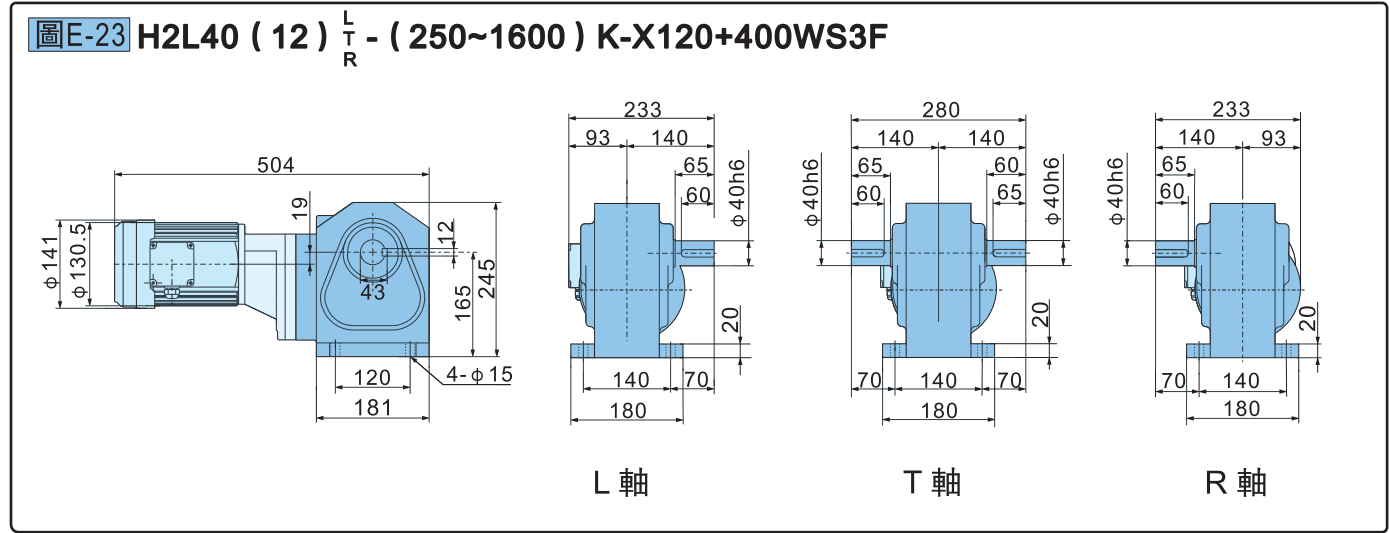


Foot mounting 底腳安裝

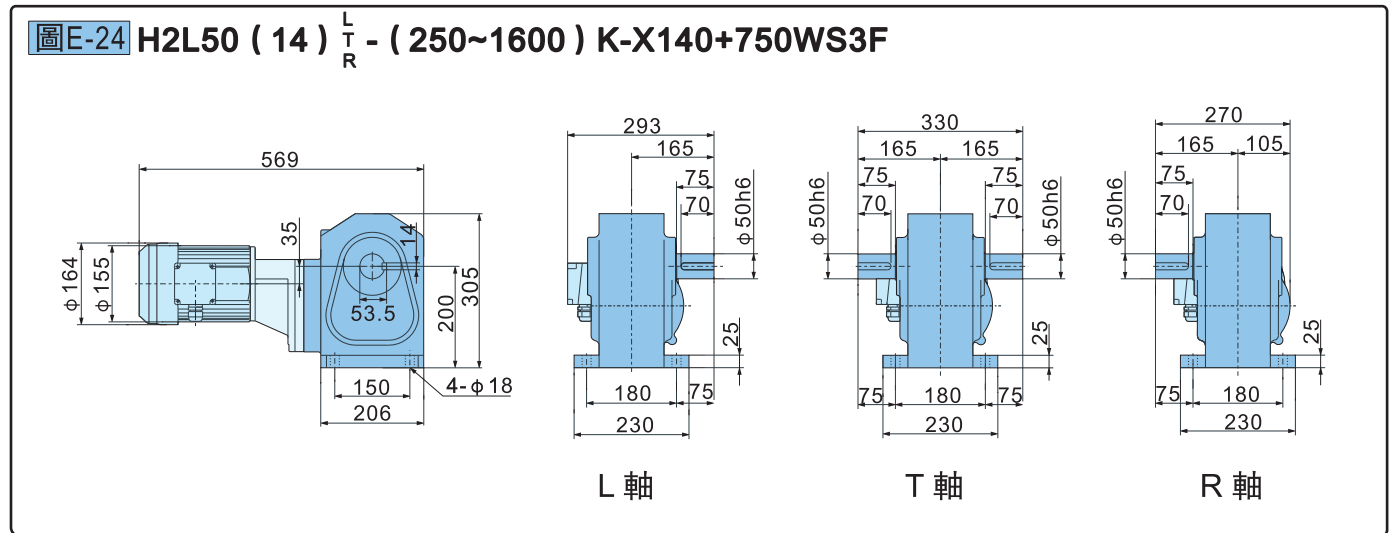




Foot mounting 底腳安裝



Foot mounting 底腳安裝

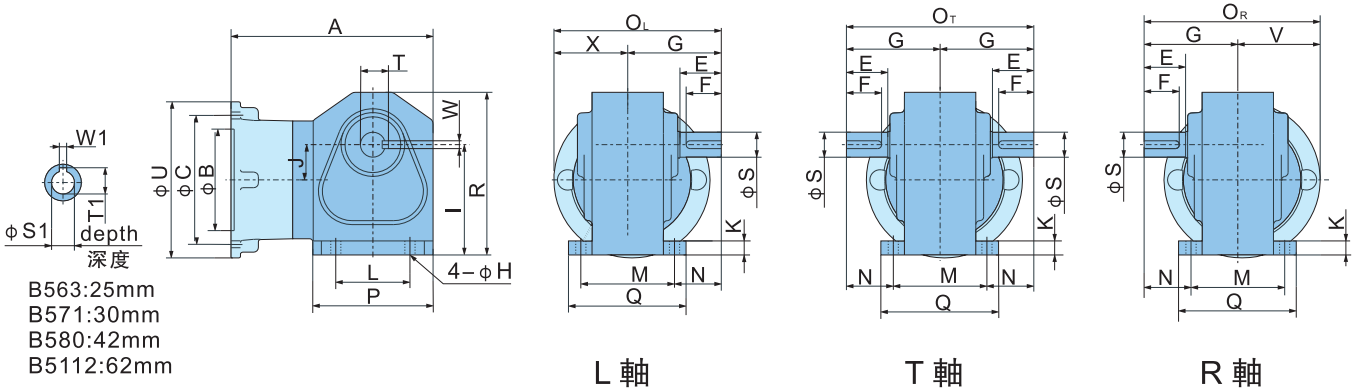


IEC INPUT-TYPE REDUCER  
IEC輸入型減速器



H2L22 ( 6 ) T- ( 5~240 ) K+B563+100/200W

IEC INPUT-TYPE IEC輸入型減速器



INPUT BORE 輸入孔尺寸

| POWER<br>功率     | FLANGE<br>法蘭規格 | BORE<br>輸入孔 | KEYWAY<br>鍵槽   |                |
|-----------------|----------------|-------------|----------------|----------------|
|                 |                |             | S <sub>1</sub> | T <sub>1</sub> |
| 0.1kW           | B5-63          | Φ11         | 4              | 12.8           |
| 0.2kW           | B5-71          | Φ14         | 5              | 16.3           |
| 0.4kW           | B5-80          | Φ19         | 6              | 21.8           |
| 0.4kW<br>0.75kW | B5-90          | Φ24         | 8              | 27.3           |
| 2.2kW<br>3.7kW  | B5-112M        | Φ28         | 8              | 31.3           |
| 3.7kW           | B5-112M        | Φ28         | 8              | 31.3           |

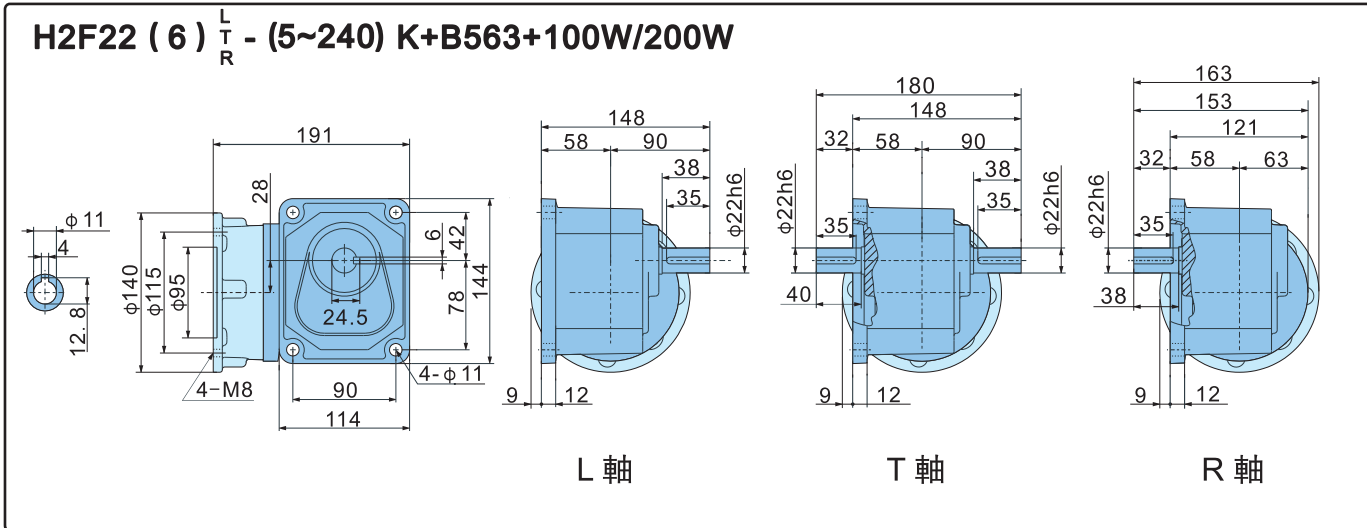
OUTPUT SHAFT 輸出軸尺寸

| SIZE(S)<br>型番 | SHAFT<br>輸出軸 | KEYWAY<br>鍵槽 |      | KEY<br>鍵 |
|---------------|--------------|--------------|------|----------|
|               |              | W            | T    |          |
| 22            | Φ22          | 6            | 24.5 | 6*6      |
| 28            | Φ28          | 8            | 31   | 8*7      |
| 32            | Φ32          | 10           | 35   | 10*8     |
| 32            | Φ32          | 10           | 35   | 10*8     |
| 40            | Φ40          | 12           | 43   | 12*8     |
| 50            | Φ50          | 14           | 53.5 | 14*9     |

| POWER<br>功率     | FLANG<br>法蘭 | RATIO<br>減速比 | SIZE(S)<br>型番 | A   | B   | C   | D  | E  | F  | G   | H  | I   | J    | K  | L   | M   | N  | O <sub>L</sub> | O <sub>R</sub> | O <sub>T</sub> | P   | Q   | R   | U   | X   | V   |
|-----------------|-------------|--------------|---------------|-----|-----|-----|----|----|----|-----|----|-----|------|----|-----|-----|----|----------------|----------------|----------------|-----|-----|-----|-----|-----|-----|
| 0.1kW<br>0.2kW  | B5-63       | 3-90         | 22            | 175 | 95  | 115 | 22 | 40 | 35 | 90  | 11 | 105 | 35   | 12 | 70  | 90  | 45 | 156            | 164            | 180            | 112 | 117 | 154 | 140 | 66  | 75  |
| 0.4kW           | B5-71       | 3-90         | 28            | 197 | 110 | 130 | 28 | 45 | 40 | 100 | 11 | 120 | 42   | 15 | 80  | 100 | 50 | 174            | 186            | 200            | 125 | 126 | 179 | 160 | 86  | 74  |
| 0.75kW<br>1.5kW | B5-80       | 3-120        | 32            | 259 | 130 | 165 | 32 | 55 | 50 | 120 | 13 | 140 | 45   | 18 | 95  | 120 | 60 | 214            | 226            | 240            | 152 | 150 | 208 | 200 | 106 | 94  |
| 2.2kW<br>3.7kW  | B5-112M     | 3-100        | 40            | 301 | 180 | 215 | 40 | 65 | 60 | 140 | 15 | 165 | 56   | 22 | 120 | 140 | 70 | 255            | 275            | 280            | 180 | 180 | 247 | 250 | 135 | 115 |
| 2.2kW<br>3.7kW  | B5-112M     | 3-60         | 50            | 327 | 180 | 215 | 50 | 75 | 70 | 165 | 18 | 200 | 78.5 | 25 | 150 | 180 | 75 | 278            | 302            | 330            | 206 | 230 | 308 | 250 | 137 | 113 |

## IEC INPUT-TYPE REDUCER IEC輸入型減速器

## Flange mounting法蘭安裝

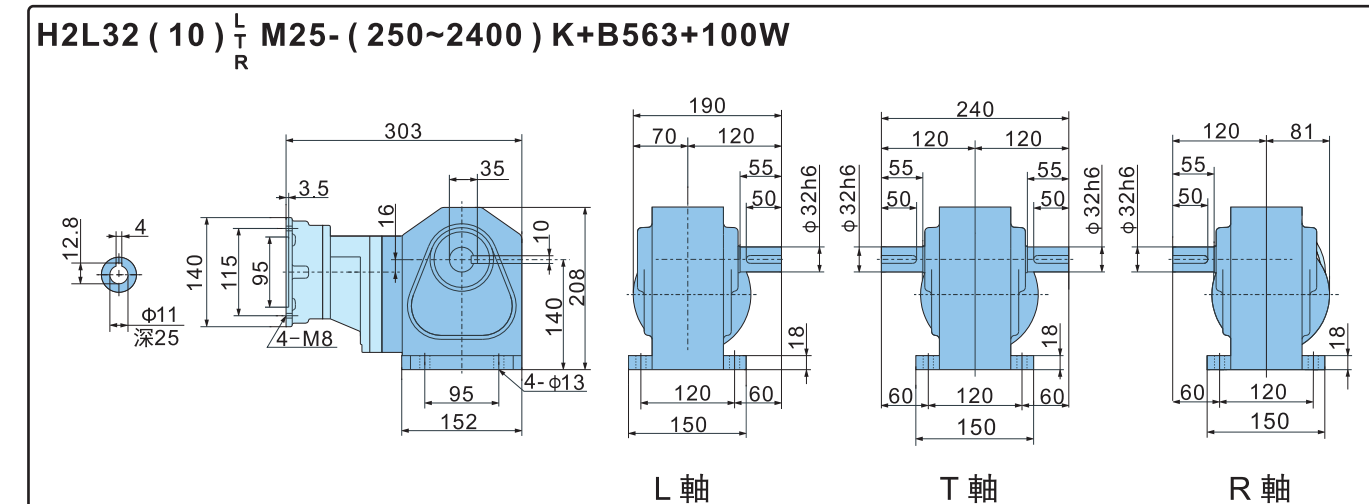


## IEC INPUT-TYPE HIGH RATIO REDUCER IEC輸入型高速比減速器

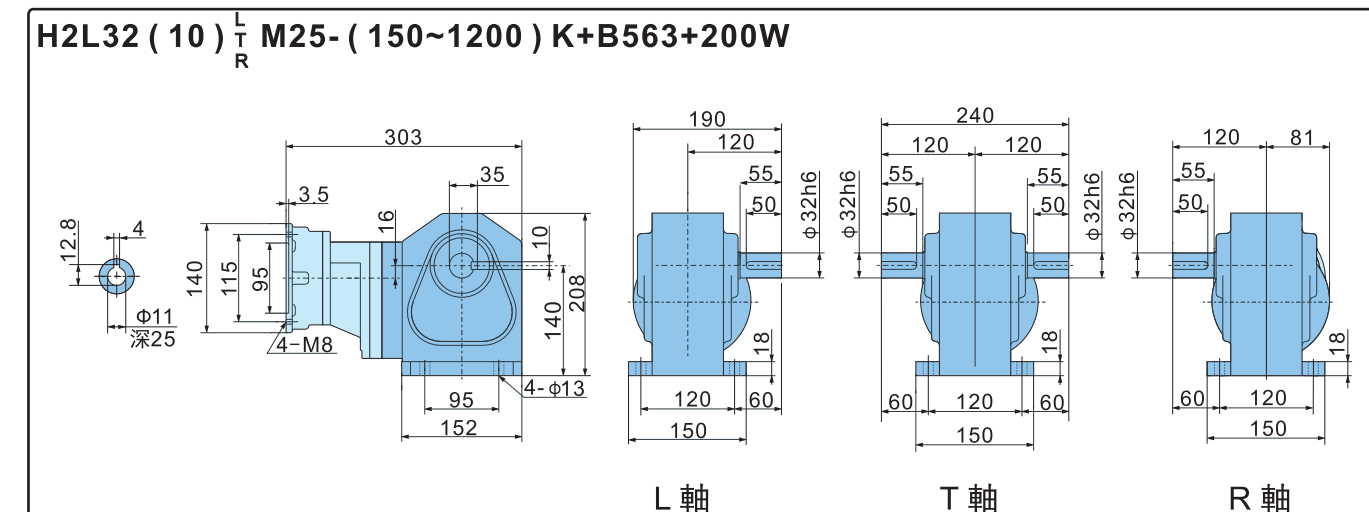


**H2L 32 ( 10 ) TM25- ( 250~2400 ) K+B563+100W**

## Foot mounting 底脚安裝



## Foot mounting 底脚安裝

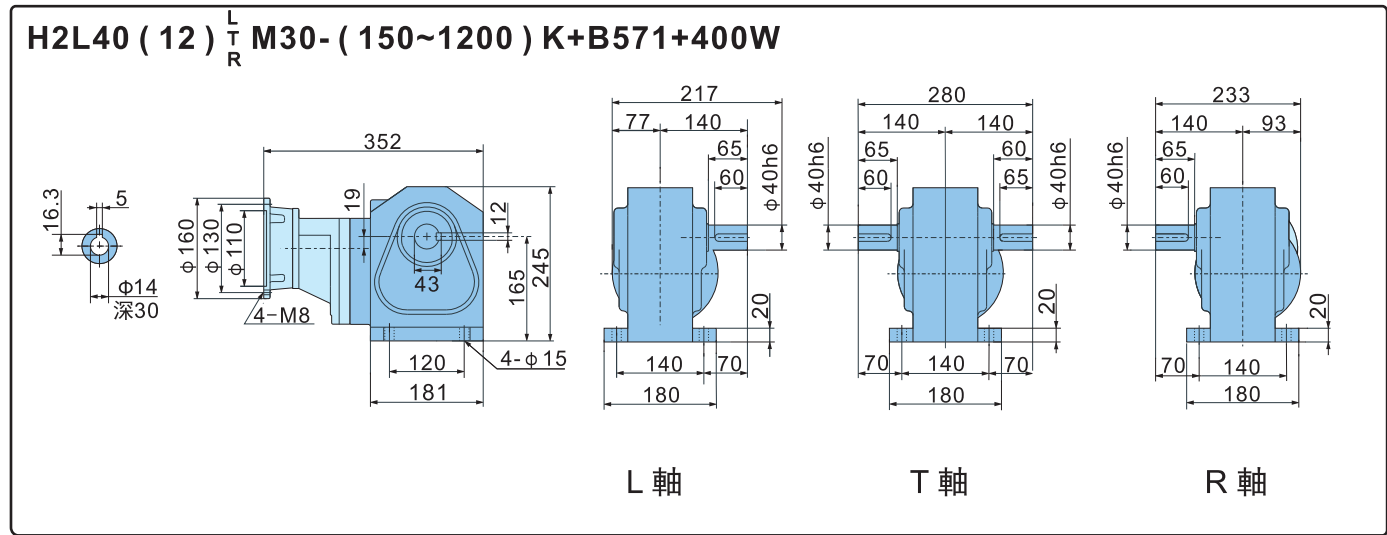


IEC INPUT-TYPE HIGH RATIO REDUCER  
IEC輸入型高速比減速器

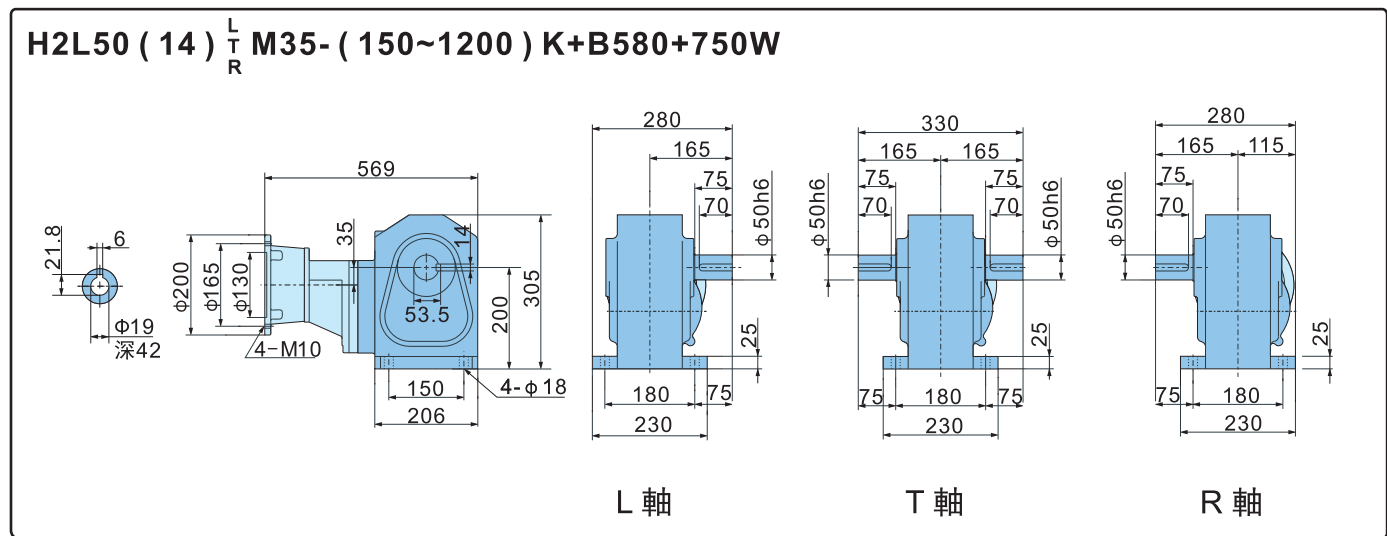


H2L40 ( 12 ) TM30- ( 150~1200 ) K+B571+400W

Foot mounting 底腳安裝



Foot mounting 底腳安裝

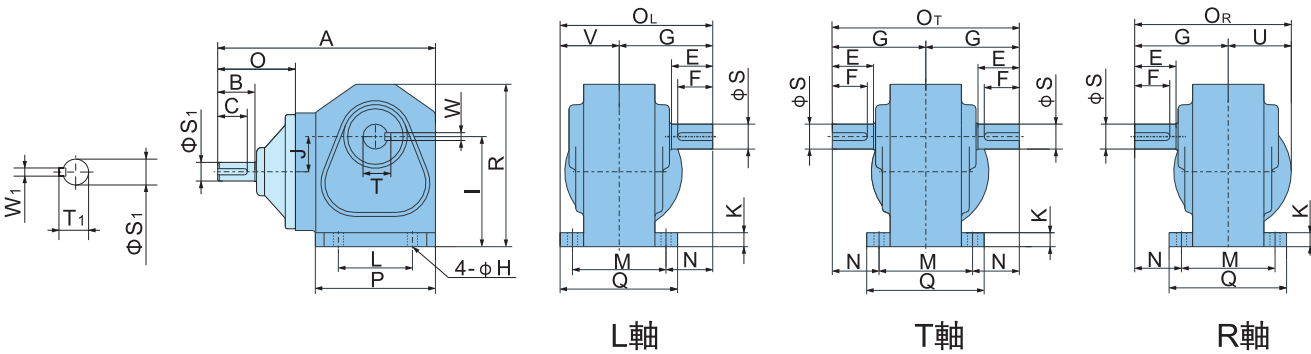


SHAFT INPUT-TYPE REDUCER  
軸輸入型減速器



H2F22 ( 6 ) T- ( 30~90 ) K+100W/200W

IEC INPUT-TYPE REDUCER IEC輸入型減速器



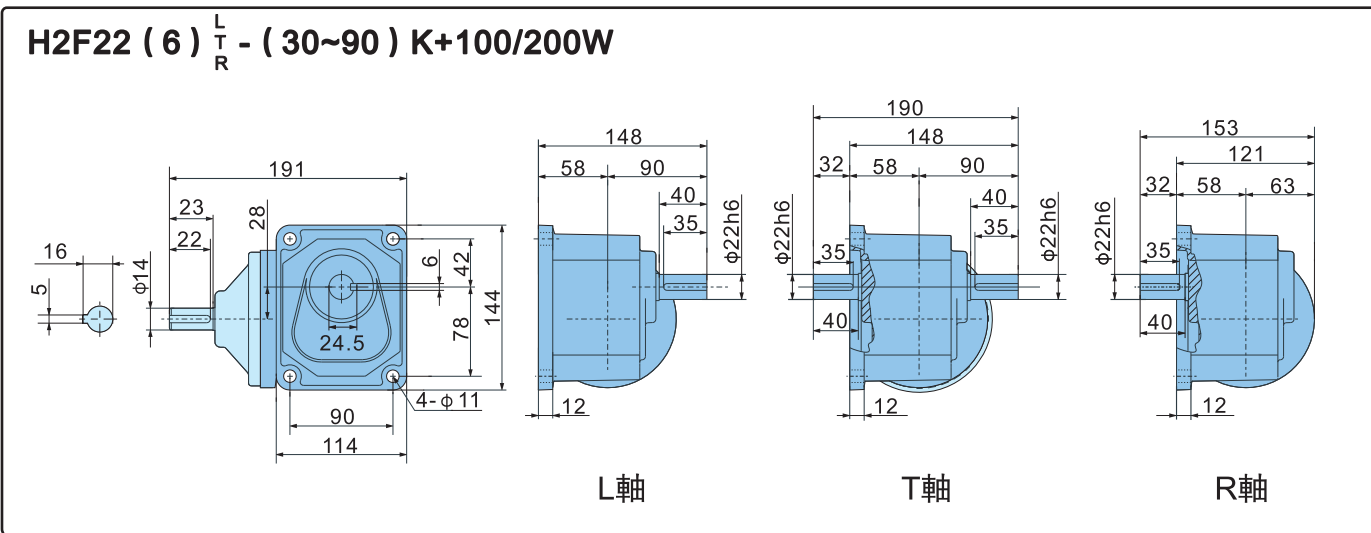
| INPUT SHAFT 輸入軸尺寸 |                |    |                |                |    |          | OUTPUT SHAFT 輸出軸尺寸 |              |              |      |          |
|-------------------|----------------|----|----------------|----------------|----|----------|--------------------|--------------|--------------|------|----------|
| POWER<br>功 率      | SHAFT<br>輸入軸   |    | KEYWAY<br>鍵槽   |                |    | KEY<br>鍵 | SIZE(S)<br>型番      | SHAFT<br>輸出軸 | KEYWAY<br>鍵槽 |      | KEY<br>鍵 |
|                   | S <sub>1</sub> | B  | W <sub>1</sub> | T <sub>1</sub> | C  | SPEC     |                    | ΦS           | W            | T    | SPEC     |
| 0.1kW<br>0.2kW    | Φ14            | 23 | 5              | 16.2           | 22 | 5*5*22   | 22                 | Φ22          | 6            | 24.5 | 6*6      |
| 0.4kW             | Φ16            | 28 | 5              | 18.2           | 27 | 5*5*27   | 28                 | Φ28          | 8            | 31   | 8*7      |
| 0.55kW<br>0.75kW  | Φ19            | 38 | 6              | 21.5           | 35 | 6*6*35   | 32                 | Φ32          | 10           | 35   | 10*8     |
| 1.1kW<br>1.5kW    | Φ24            | 48 | 8              | 27.1           | 45 | 8*7*45   | 32                 | Φ32          | 10           | 35   | 10*8     |
| 2.2kW<br>3.7kW    | Φ28            | 53 | 8              | 33             | 50 | 8*7*50   | 40                 | Φ40          | 12           | 43   | 12*8     |
|                   |                |    |                |                |    |          | 50                 | Φ50          | 14           | 53.5 | 14*9     |

| POWER<br>功率      | RATIOS<br>減速比 | SIZE(S)<br>型番 | A   | B  | C  | E  | F  | G   | H  | I   | J  | K  | L   | M   | N  | O   | O <sub>L</sub> | O <sub>R</sub> | O <sub>T</sub> | P   | Q   | R   | U   | V   |
|------------------|---------------|---------------|-----|----|----|----|----|-----|----|-----|----|----|-----|-----|----|-----|----------------|----------------|----------------|-----|-----|-----|-----|-----|
| 0.1kW<br>0.2kW   | 3-90          | 22            | 192 | 23 | 22 | 40 | 35 | 90  | 11 | 105 | 35 | 12 | 70  | 90  | 45 | 65  | 147            | 154            | 180            | 112 | 117 | 156 | 64  | 57  |
| 0.4kW            | 3-90          | 28            | 231 | 28 | 27 | 45 | 40 | 100 | 11 | 120 | 42 | 15 | 80  | 100 | 50 | 65  | 164            | 170            | 200            | 125 | 126 | 179 | 70  | 59  |
| 0.55kW<br>0.75kW | 3-120         | 32            | 280 | 38 | 35 | 55 | 50 | 120 | 13 | 140 | 45 | 18 | 95  | 120 | 60 | 82  | 196            | 201            | 240            | 152 | 150 | 208 | 81  | 76  |
| 1.1kW<br>1.5kW   | 3-40          | 40            | 334 | 48 | 45 | 65 | 60 | 140 | 15 | 165 | 56 | 22 | 120 | 140 | 70 | 108 | 217            | 233            | 280            | 180 | 180 | 247 | 93  | 77  |
| 2.2kW<br>3.7kW   | 3-40          | 40            | 339 | 48 | 45 | 65 | 60 | 140 | 15 | 165 | 56 | 22 | 120 | 140 | 70 | 113 | 217            | 233            | 280            | 180 | 180 | 247 | 93  | 77  |
| 3.7kW            | 3-100         | 50            | 359 | 53 | 50 | 75 | 70 | 165 | 18 | 200 | 79 | 25 | 150 | 180 | 75 | 118 | 280            | 280            | 330            | 206 | 230 | 308 | 105 | 115 |

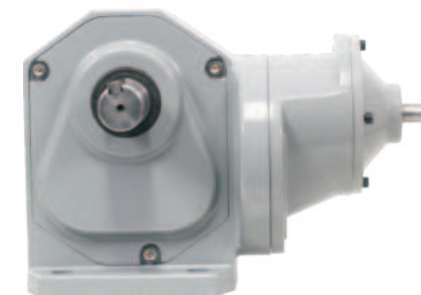


SHAFT INPUT-TYPE REDUCER  
軸輸入型減速器

Flange mounting 法蘭安裝

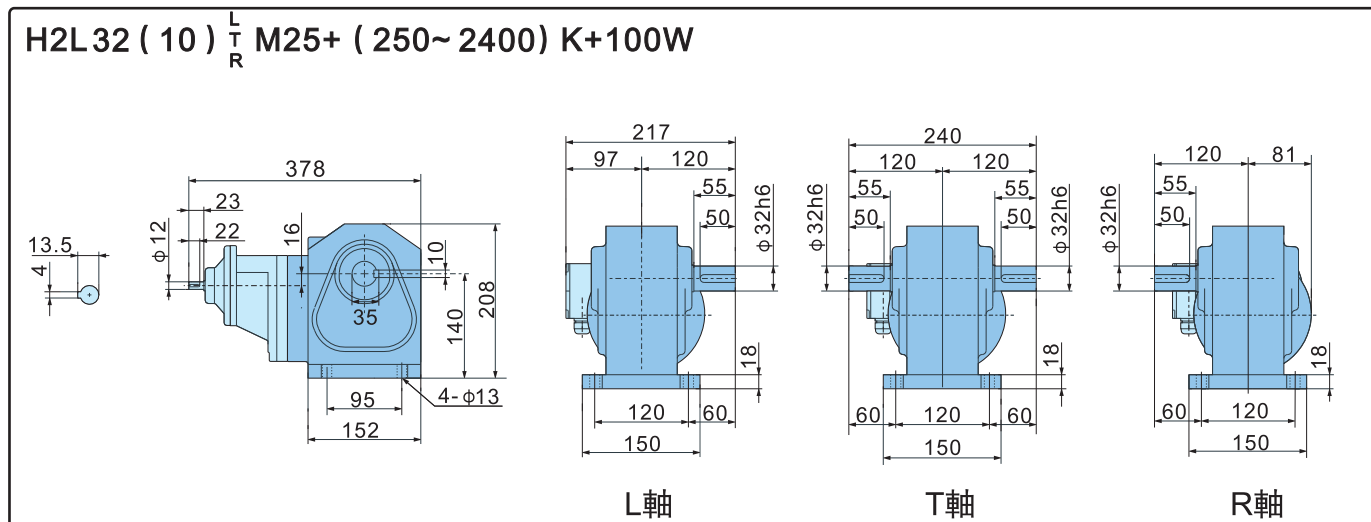


SHAFT INPUT-TYPE HIGH RATIO REDUCER  
軸輸入型高速比減速器

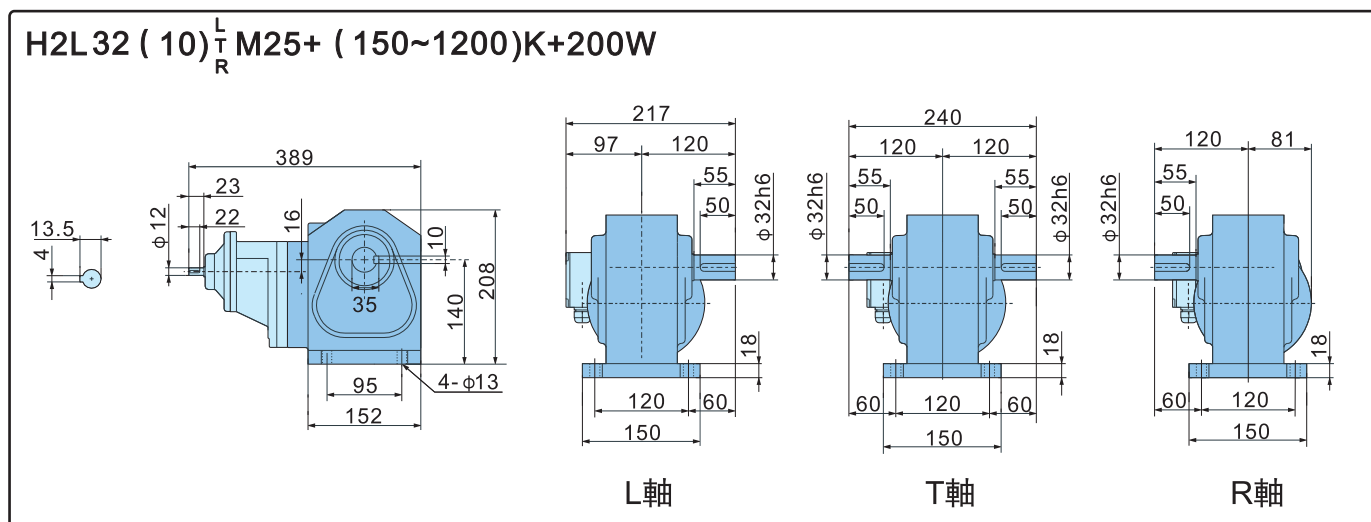


H2L32 ( 10 ) TM25+ ( 250-2400 ) K+100W

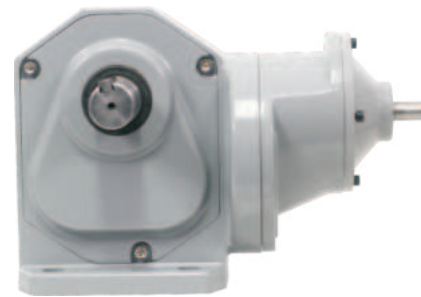
Foot mounting 底腳安裝



Foot mounting 底腳安裝



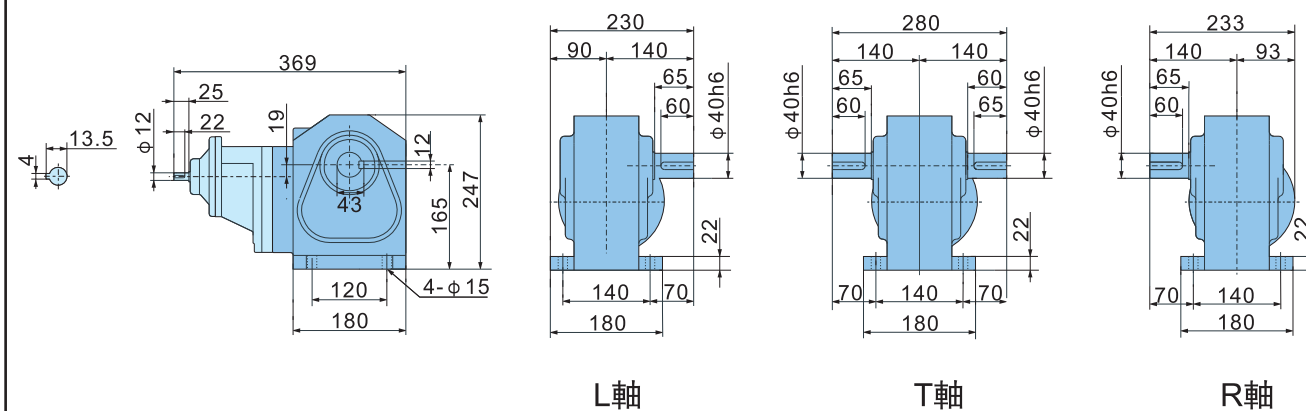
SHAFT INPUT-TYPE HIGH RATIO REDUCER  
軸輸入型高速比減速器



H2L40 ( 12 ) TM30+ ( 150~1200 ) K+400W

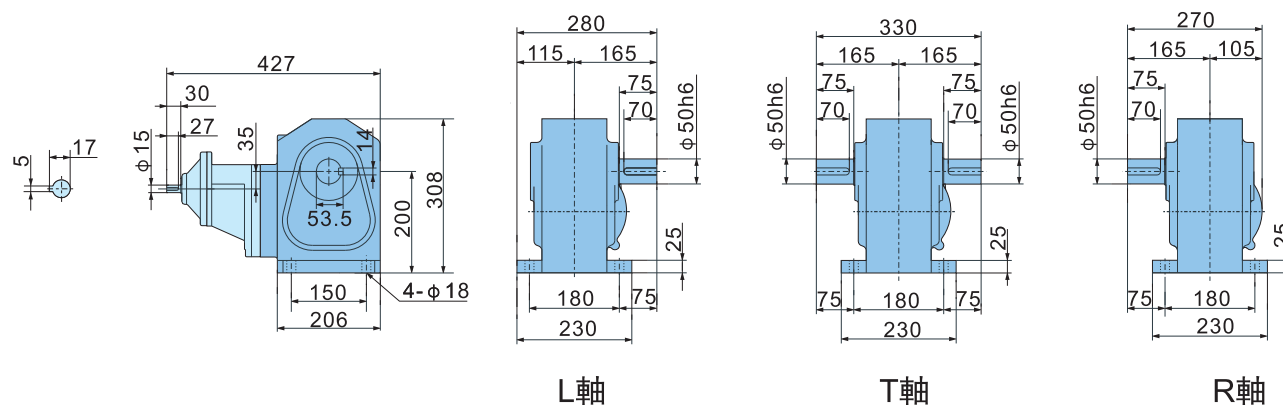
Foot mounting 底腳安裝

H2L40 ( 12 )<sub>L</sub><sub>T</sub><sub>R</sub> M30+ ( 150~1200 ) K+400W



Foot mounting 底腳安裝

H2L50 ( 14 )<sub>L</sub><sub>T</sub><sub>R</sub> M35+ ( 150~1200 ) K+750W



# G3/4 Series Motor

## PARALLEL SHAFT GEAR REDUCTION

G3/4 系列中型平行軸減速電機 0.1kW~3.7kW

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特性表、外形圖



共同引領世界  
Drive the world together

> DESCRIPTION OF MODEL 型號說明

G4

L

22

( 7 )

X110

-

30K

+

400W

S3

-

X110

-

B

-

A1

-

LD

1

2

3

4

5

6

7

8

9

10

11

12

|    |                                                  |                                                                                                                                                   |
|----|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Type code 機型系列代號                                 | G3/4: type Parallel shaft reduction motor<br>G3/4 系列平行軸減速電機<br>G3:Unitary type reduction motor 一體式<br>G4:Split typ reduction motor 分體式            |
| 2  | Structure form 結構形式                              | L ( orH ) : Horizontal 卧式 F ( orV ) : Vertical 立式                                                                                                 |
| 3  | Output shaft DIA 輸出軸直徑                           | 18: Φ18 22: Φ22 28: Φ28 x: Φxmm                                                                                                                   |
| 4  | Keyway size 鍵槽尺寸                                 | 5:5 7:7 10:10 14:14 x:x                                                                                                                           |
| 5  | Flange type 法蘭形式                                 | x101 ( x110、x120、140、160、180 ) B5: ( B563、B571、B580、B5112 ) ( Not specified for shaft input 未注為軸輸入型 )                                             |
| 6  | Gear ratio 減速比                                   | 3: 1:3 5: 1:5 10: 1:10 20: 1:20 30: 1:30 x: 1:x                                                                                                   |
| 7  | Rated power 額定功率                                 | 100: 100W 200: 200W 400: 400W 750: 750W x: xW                                                                                                     |
| 8  | Rated voltage 額定電壓                               | C1: 1-Phase單相 110V<br>C2: 1-Phase單相 220V<br>S2: 3-Phase三相220V<br>S3: 3-Phase三相380V<br>S4: 3-Phase三相440V<br>S2/3: 3-Phase三相220/380V                |
| 9  | Flange type 法蘭形式                                 | x101 ( x110、x120、x140、x160、x180 )                                                                                                                 |
| 10 | Brake unit 剎車器形式                                 | B: DC90V brake working when power off 斷電剎車器<br>D: DC24V brake working when power supply 送電剎車器<br>YB: Brake with manual release 帶手動釋放剎車器           |
| 11 | Terminal box direction from output shaft 從軸端看盒位置 | A1: Left direction 左方向<br>A2: Right direction 右方向<br>A3: Top direction 上方向<br>A4: Down direction 下方向<br>Remark備注: A1direction is standard A1是標配方向 |
| 12 | Lead wire direction from output shaft 從軸端看出線方向   | L: Left direction 向左方向<br>R: Right direction 向右方向<br>T: Top direction 向上方向<br>D: Down direction 向下方向<br>F: Forward direction 向前方向<br>B: Back 向后方向 |

As technical data for these machines may be advantaged , please contact us or visit the company website. Not allow for publish without formal approved.

因技術改進，實際值可能與上述參數有差異，恕不另行通知，若需具體參數，敬請諮詢本公司或瀏覽網站。

Terminal box direction, lead wire direction and ventilation installation diagram 接線盒位置和引出線方向示意圖

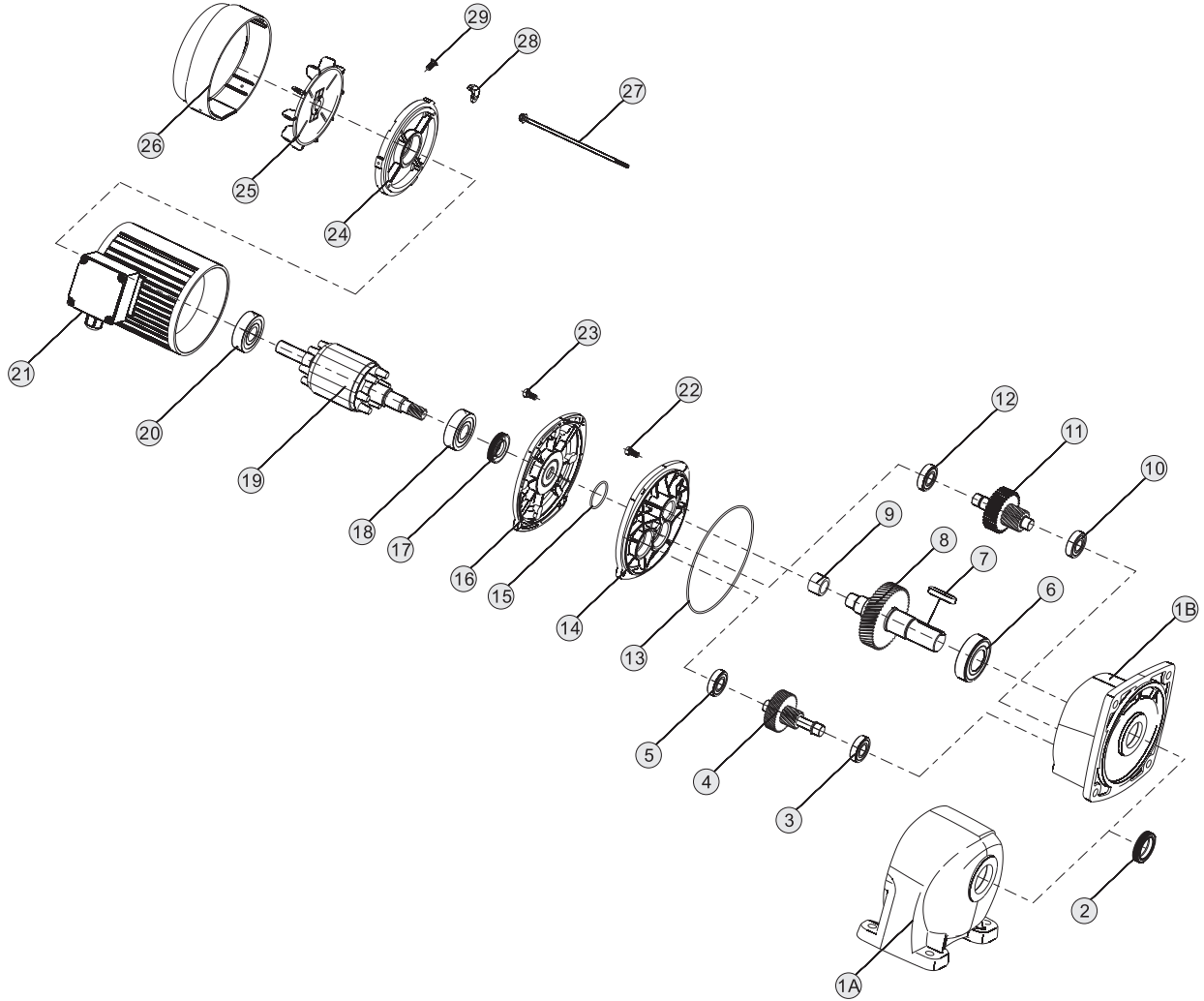
|                                                                         |                       |        |        |        |        |        |        |        |        |
|-------------------------------------------------------------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| View the terminal box position from the input sha<br><br>從輸入軸端看<br>接綫盒方 | H<br>Horizontal<br>臥式 | <br>A1 | <br>A2 | <br>A3 | <br>A4 |        |        |        |        |
|                                                                         | V<br>Vertical<br>立式   | <br>A1 | <br>A2 | <br>A3 | <br>A4 |        |        |        |        |
| Lead wire direction from output shaft<br><br>從軸端看<br>引出綫方向              |                       | <br>LD | <br>LT | <br>RD | <br>RT | <br>TL | <br>TR | <br>DL | <br>DR |
|                                                                         |                       | <br>LF | <br>LB | <br>RF | <br>RB | <br>TF | <br>TB | <br>DF | <br>DB |



STANDERD MODEL COMPOSITION TABLE 標準機型構成表

| Model<br>型號   | Rated Power<br>電機功率 | Shaft Dim<br>軸徑(d) | Ratio<br>減速比                                                                                                     |
|---------------|---------------------|--------------------|------------------------------------------------------------------------------------------------------------------|
| 減速機           | 0.1kW               | 18d                | 1/3 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/30<br>1/40 1/50 1/60 1/70 1/80 1/90 1/100 1/120<br>1/140 1/160 1/180 1/200 |
|               |                     | 22d                | 1/60 1/80 1/90 1/100 1/120 1/160 1/180 1/250                                                                     |
|               |                     | 18d                | 1/3 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/30<br>1/40 1/50 1/60 1/70 1/80 1/90                                        |
|               |                     | 22d                | 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60<br>1/70 1/80 1/90 1/100 1/120 1/160 1/200 1/250                        |
|               | 0.2kW               | 28d                | 1/120 1/160 1/200 1/250                                                                                          |
|               |                     | 22d                | 1/3 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/30<br>1/40 1/50 1/60 1/70 1/80 1/90 1/100 1/120                            |
|               |                     | 28d                | 1/12.5 1/15 1/20 1/25 1/30 1/40 1/50 1/60<br>1/70 1/80 1/90 1/100 1/120 1/160 1/200 1/250                        |
|               |                     | 32d                | 1/100 1/120 1/160 1/180 1/200                                                                                    |
|               | 0.4kW               | 28d                | 1/3 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/30<br>1/40 1/50 1/60 1/70 1/80 1/90 1/100                                  |
|               |                     | 32d                | 1/30 1/40 1/45 1/50 1/60 1/70 1/80 1/90<br>1/100 1/120 1/160 1/180 1/200                                         |
|               |                     | 40d                | 1/135 1/160 1/180 1/200                                                                                          |
|               |                     | 50d                | 1/160 1/180 1/200                                                                                                |
| 帶制動器減速機       | 0.75kW              | 28d                | 1/3 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/30<br>1/40 1/50 1/60 1/70 1/80 1/90 1/100                                  |
|               |                     | 32d                | 1/30 1/40 1/45 1/50 1/60 1/70 1/80 1/90<br>1/100 1/120 1/160 1/180 1/200                                         |
|               |                     | 40d                | 1/135 1/160 1/180 1/200                                                                                          |
|               |                     | 50d                | 1/160 1/180 1/200                                                                                                |
|               | 1.5kW               | 28d                | 1/3 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/30<br>1/40 1/50 1/60                                                       |
|               |                     | 32d                | 1/3 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/30<br>1/40 1/50 1/60                                                       |
|               |                     | 40d                | 1/40 1/45 1/50 1/60 1/70 1/80 1/90 1/100<br>1/80 1/90 1/100 1/120 1/160 1/180 1/200                              |
|               |                     | 50d                | 1/3 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/30<br>1/40 1/50 1/60 1/75 1/80 1/90 1/100                                  |
|               | 2.2kW               | 40d                | 1/3 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25<br>1/30 1/40 1/50 1/60                                                  |
|               |                     | 50d                | 1/15 1/20 1/25 1/30 1/40 1/50 1/55 1/60<br>1/75 1/80 1/90 1/100                                                  |
|               |                     | 50d                | 1/75 1/80 1/90 1/100                                                                                             |
| 制動器<br>帶手動釋放機 | 3.7kW               | 40d                | 1/3 1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25<br>1/30 1/40 1/50 1/60                                                  |
|               |                     | 50d                | 1/15 1/20 1/25 1/30 1/40 1/50 1/55 1/60<br>1/75 1/80 1/90 1/100                                                  |
|               |                     | 50d                | 1/75 1/80 1/90 1/100                                                                                             |
|               |                     | 50d                | 1/75 1/80 1/90 1/100                                                                                             |

PRODUCT STRUCTURE DIAGRAM 產品結構圖



Detail parts list 零件清單

| No | Denomination<br>零件名稱    | No | Denomination<br>零件名稱 | No | Denomination<br>零件名稱   |
|----|-------------------------|----|----------------------|----|------------------------|
| 1A | Horizontal housing 臥式本體 | 10 | Ball bearing 軸承      | 20 | Ball bearing 軸承        |
| 1B | Vertical housing 立式本體   | 11 | 2nd main gear 二輪組件   | 21 | Stator 定子總成            |
| 2  | Oil seal 油封             | 12 | Ball bearing 軸承      | 22 | Inner hex. screw 內六角螺釘 |
| 3  | Ball bearing 軸承         | 13 | O-ring O型密封圈         | 23 | Inner hex. screw 內六角螺釘 |
| 4  | 1st main gear 一輪組件      | 14 | Bearing plate 軸承板    | 24 | Rear cover 後端蓋         |
| 5  | Ball bearing 軸承         | 15 | O-ring O型密封圈         | 25 | Fan 風葉                 |
| 6  | Ball bearing 軸承         | 16 | Front cover 前端蓋      | 26 | Fan cover 風罩           |
| 7  | Key 平鍵                  | 17 | Seal 油封              | 27 | Long bolt-motor 電機長螺栓  |
| 8  | Output main gear 輸出輪組件  | 18 | Ball bearing 軸承      | 28 | Bracket 支架             |
| 9  | Oilless bearing 自潤滑軸承   | 19 | Rotor 轉子             | 29 | Cross screw 十字螺釘       |

STANDARD SPECIFICATIONS 標準規格

|                     |                                |                                                                     |  |                   |  |
|---------------------|--------------------------------|---------------------------------------------------------------------|--|-------------------|--|
| Motor<br>電機         | Phase<br>相數                    | Single phase 單相                                                     |  | Three phase 三相    |  |
|                     | Power<br>功率                    | 0.1, 0.2, 0.4, 0.55, 0.75, 1.1, 1.5, 2.2, 3.7kW                     |  |                   |  |
|                     |                                | No brake 、with brake 無制動器、附帶制動器                                     |  |                   |  |
|                     | Rated power<br>電源              | 220v/50Hz                                                           |  | 380v/50Hz         |  |
|                     | Poles of the motor<br>電機極數     | 4                                                                   |  |                   |  |
|                     | Protection class<br>防護等級       | IP54                                                                |  |                   |  |
|                     | Cooling-down method<br>冷卻方式    | Self-control type 自控型（IC411）                                        |  |                   |  |
|                     | Starting duty<br>啟動方式          | Running capacitor 運轉電容                                              |  | Direct start 全壓啟動 |  |
|                     | Time duty<br>工作制式              | Continuous running 連續運轉                                             |  |                   |  |
|                     | Insucation class<br>絕緣         | Option of B class or Fclass B 級或 F 級                                |  |                   |  |
|                     | Action<br>制動器方式                | Non-excitation action type、DC electromagnetic brake 無勵磁動作型、直流電磁制動器  |  |                   |  |
| Ratio<br>減速比        | 1/3~1/250                      |                                                                     |  |                   |  |
| Reducer<br>減速器      | Lubricating<br>潤滑方式            | Lubricant 封閉 潤滑油                                                    |  |                   |  |
|                     | Shaft end key way<br>軸端鍵槽部     | GB/T1095-2003: 附帶輸出軸鍵（鍵為普通級別）                                       |  |                   |  |
|                     | Installation site<br>安裝場所      | Less dust .nowater drench place 室內塵埃較少、無水淋的場所                       |  |                   |  |
| Environment<br>適用環境 | Temperature<br>溫度              | -10℃~+40℃                                                           |  |                   |  |
|                     | Humidity<br>濕度                 | Below 85% 85% 以下（無結霜）                                               |  |                   |  |
|                     | Environment<br>環境              | Non-corrosive gas、explosive gas、water vapor etc 無腐蝕性氣體、爆炸性氣體，水蒸氣等   |  |                   |  |
|                     | Installation direction<br>安裝方向 | No horizontal、vertical、tilt mounting restrictions 無水平、垂直、傾斜等安裝角度的限制 |  |                   |  |
|                     | Color<br>顏色                    | Medium 中灰色 Green 綠色 Red紅色 White 白灰色                                 |  |                   |  |

motor characteristic 電機特性

| Phase<br>相數                              | Power<br>功率 | Poles of the motor<br>電機極數 | Rated Frequency<br>頻率 Hz | Rated Voltage<br>電壓 V | Rated power<br>額定電流值 A | Rated power<br>額定轉速r/min | 20℃時，直流側制動器<br>電流值A ( 參考值 ) |
|------------------------------------------|-------------|----------------------------|--------------------------|-----------------------|------------------------|--------------------------|-----------------------------|
| Singe phase /<br>Three phases<br>單相 / 三相 | 0.1kW       | 4                          | 50                       | 220<br>( 380 )        | 0.6<br>( 0.43 )        | 1400                     | 0.19                        |
|                                          | 0.2kW       |                            |                          |                       | 1.15<br>( 0.67 )       |                          | 0.19                        |
|                                          | 0.4kW       |                            |                          |                       | 2.14<br>( 1.34 )       |                          | 0.19                        |
|                                          | 0.55KW      |                            |                          |                       | 2.26<br>( 1.42 )       |                          | 0.28                        |
|                                          | 0.75kW      |                            |                          |                       | 3.93<br>( 2.2 )        |                          | 0.28                        |
|                                          | 1.1kW       |                            |                          |                       | 4.72<br>( 2.7 )        |                          | 0.28                        |
| Three phases<br>三相                       | 1.5kW       |                            |                          |                       | 6.59<br>( 3.82 )       |                          | 0.28                        |
|                                          | 2.2kW       |                            |                          |                       | 8.94<br>( 6.0 )        |                          | 0.28                        |
|                                          | 3.7kW       |                            |                          |                       | 13.85<br>( 7.55 )      |                          | 0.35                        |

注 ) 額定電流值 ( ) 內為380V時的值。  
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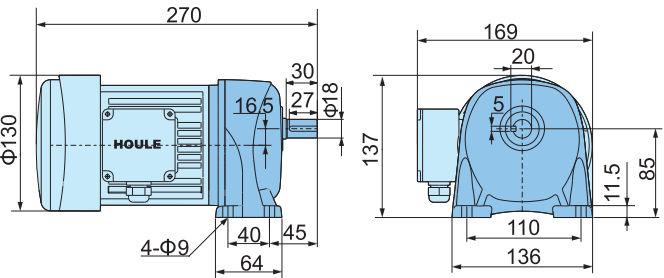
0.1kW  
HORIZONTAL 卧式  
1-PHASE/3-PHASE 單相/三相



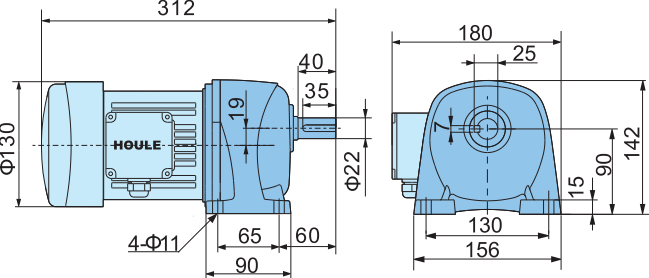
G3L18(5)X101-(3~200)K+100WS3F

| Power<br>功 率 | Rated Voltage<br>電 壓 ( V ) |     | Rated Currment 額定電流 ( A ) |                              | Rated Speed<br>額定轉速(rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |         |      |                            |     |
|--------------|----------------------------|-----|---------------------------|------------------------------|--------------------------|--------------------------|--------------------------|---------|------|----------------------------|-----|
|              |                            |     | 50Hz                      | 60Hz                         |                          |                          |                          |         |      |                            |     |
| 0.1kW        | 380                        |     | 0.43                      | 0.4                          | 1400                     | B                        | 20 54                    |         |      |                            |     |
|              | 220                        |     | 0.6                       | 0.6                          | 1400                     |                          |                          |         |      |                            |     |
| Power<br>功 率 | Overall Dimensions<br>外形圖  |     | Ratio<br>減速比              | Output Speed<br>輸出轉速 ( rpm ) |                          | Output Torque<br>輸出轉矩    |                          |         |      | Output Shaft<br>輸出軸容許軸向力負荷 |     |
|              |                            |     |                           |                              |                          | N · m                    |                          | kgf · m |      |                            |     |
|              |                            |     |                           | 50Hz                         | 60Hz                     | 50Hz                     | 60Hz                     | 50Hz    | 60Hz | N                          | kgf |
| 0.1kW        | Φ18(5)                     | F-1 | 1/3                       | 500                          | 600                      | 1.9                      | 1.6                      | 0.19    | 0.16 | 650                        | 66  |
|              |                            |     | 1/5                       | 300                          | 360                      | 3                        | 2.5                      | 0.31    | 0.26 | 770                        | 78  |
|              |                            |     | 1/7.5                     | 200                          | 240                      | 4.7                      | 3.9                      | 0.47    | 0.39 | 950                        | 96  |
|              |                            |     | 1/10                      | 150                          | 180                      | 6.1                      | 5                        | 0.62    | 0.5  | 1140                       | 116 |
|              |                            |     | 1/12.5                    | 120                          | 144                      | 7.9                      | 6.6                      | 0.8     | 0.67 | 1200                       | 122 |
|              |                            |     | 1/15                      | 100                          | 120                      | 9.1                      | 7.4                      | 0.93    | 0.75 | 1270                       | 129 |
|              |                            | F-3 | 1/20                      | 75                           | 90                       | 12                       | 9.8                      | 1.2     | 1.0  | 1530                       | 156 |
|              |                            |     | 1/30                      | 50                           | 60                       | 19                       | 14.7                     | 1.9     | 1.5  | 1780                       | 181 |
|              |                            |     | 1/40                      | 37.5                         | 45                       | 24                       | 19.6                     | 2.4     | 2.0  | 1910                       | 194 |
|              |                            |     | 1/50                      | 30                           | 36                       | 29                       | 24.5                     | 3.0     | 2.5  | 2040                       | 208 |
|              |                            |     | 1/60                      | 25                           | 30                       | 38.1                     | 31.8                     | 3.81    | 3.2  | 2170                       | 221 |
|              |                            |     | 1/80                      | 18.8                         | 22.5                     | 47                       | 39.2                     | 4.8     | 4.0  | 3180                       | 324 |
|              | Φ22(7)                     | F-2 | 1/100                     | 15                           | 18                       | 59                       | 48.8                     | 6.0     | 4.9  | 3180                       | 324 |
|              |                            |     | 1/120                     | 12.5                         | 15                       | 71                       | 58.8                     | 7.2     | 6.0  | 3180                       | 324 |
|              |                            |     | 1/160                     | 9.4                          | 11.3                     | 94                       | 78.4                     | 9.6     | 8.0  | 3180                       | 324 |
|              |                            |     | 1/200                     | 7.5                          | 9.0                      | 117                      | 98                       | 11.9    | 10   | 3180                       | 324 |
|              |                            | F-4 | 1/250                     | 6.0                          | 7.2                      | 146.5                    | 122                      | 14.7    | 12.2 | 3180                       | 324 |
|              |                            |     |                           |                              |                          |                          |                          |         |      |                            |     |

圖F-1 G3L18(5)X101-(3~200)K+100WS3F



圖F-2 G3L22(7)X101-(70~200)K+100WS3F



特性表、尺寸圖  
Feature table, size diagram

0.1kW

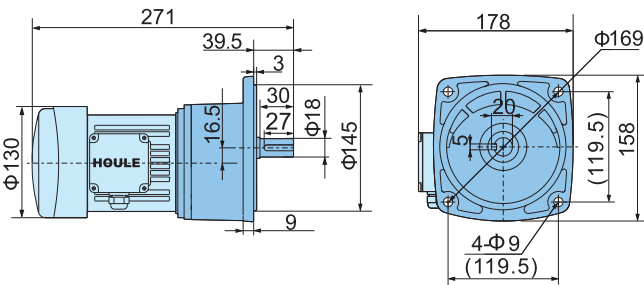
VERTICAL 立式

1-PHASE/3-PHASE 單相/三相

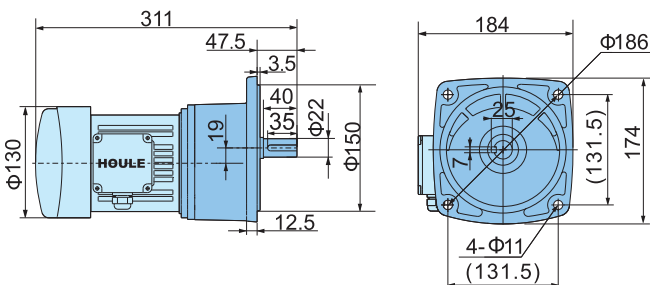


G3V18(5)X101-(3~200)K+100WS3F

圖F-3 G3V18(5)X101-(3~200)K+100WS3F



圖F-4 G3V22(7)X101-(70~200)K+100WS3F



0.2kW

HORIZONTAL 臥式

1-PHASE/3-PHASE 單相/三相

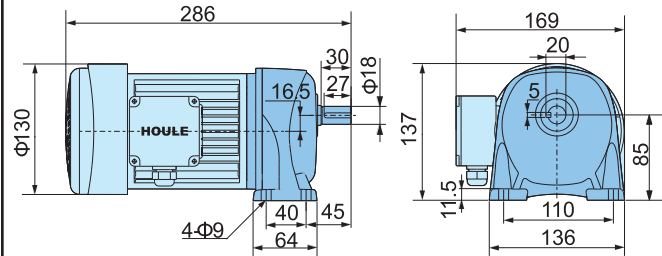


G3L18(5)X101-(3~60)K+200WS3F

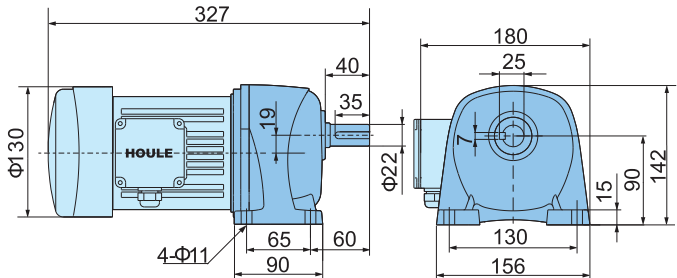
| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Currment 額定電流 (A) |      | Rated Speed<br>額定轉速(rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|-------------------------|------|--------------------------|--------------------------|--------------------------|
|             |                         | 50Hz                    | 60Hz |                          |                          |                          |
| 0.2kW       | 380                     | 0.67                    | 0.63 | 1400                     | B                        | 20 54                    |
|             | 220                     | 1.15                    | 1.10 | 1400                     |                          |                          |

| Power<br>功 率 | Overall Dimensions<br>外形圖 |      | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) |      | Output Torque<br>輸出轉矩 |      |         |      | Output shaft<br>輸出軸容許軸向力負荷 |     |
|--------------|---------------------------|------|--------------|---------------------------|------|-----------------------|------|---------|------|----------------------------|-----|
|              |                           |      |              |                           |      | N · m                 |      | kgf · m |      |                            |     |
|              |                           |      |              | 50Hz                      | 60Hz | 50Hz                  | 60Hz | 50Hz    | 60Hz | N                          | kgf |
| 0.2kW        | Φ18(5)                    | F-5  | 1/3          | 500                       | 600  | 3.7                   | 3.0  | 0.37    | 0.3  | 650                        | 66  |
|              |                           |      | 1/5          | 300                       | 360  | 6.1                   | 4.87 | 0.62    | 0.5  | 770                        | 78  |
|              |                           | F-8  | 1/7.5        | 200                       | 240  | 9.2                   | 7.7  | 0.92    | 0.77 | 950                        | 96  |
|              |                           |      | 1/10         | 150                       | 180  | 11.8                  | 9.8  | 1.2     | 1.0  | 1140                       | 116 |
|              | Φ22(7)                    | F-6  | 1/12.5       | 120                       | 144  | 15.1                  | 12.7 | 1.51    | 1.27 | 1650                       | 168 |
|              |                           |      | 1/15         | 100                       | 120  | 19                    | 15.9 | 1.9     | 1.6  | 1780                       | 179 |
|              |                           |      | 1/20         | 75                        | 90   | 25.4                  | 21.2 | 2.6     | 2.2  | 2020                       | 206 |
|              |                           |      | 1/30         | 50                        | 60   | 36.3                  | 30.4 | 3.7     | 3.1  | 2280                       | 232 |
|              |                           | F-9  | 1/40         | 37.5                      | 45   | 47                    | 39   | 4.8     | 4.1  | 2410                       | 245 |
|              |                           |      | 1/50         | 30                        | 36   | 58.8                  | 49   | 6.0     | 5.0  | 2540                       | 259 |
|              |                           |      | 1/60         | 25                        | 30   | 70.6                  | 58.6 | 7.2     | 6.1  | 2800                       | 285 |
|              |                           |      | 1/80         | 18.8                      | 22.5 | 94.1                  | 81   | 9.6     | 8.1  | 3000                       | 306 |
|              | Φ28(8)                    | F-7  | 1/100        | 15                        | 18   | 117                   | 97.6 | 11.9    | 9.8  | 3690                       | 376 |
|              |                           |      | 1/120        | 12.5                      | 15   | 140                   | 117  | 14.3    | 11.7 | 4320                       | 440 |
|              |                           |      | 1/160        | 9.4                       | 11.3 | 187                   | 155  | 19.1    | 15.7 | 4450                       | 454 |
|              |                           | F-10 | 1/200        | 7.5                       | 9.0  | 234                   | 194  | 23.9    | 19.8 | 4450                       | 454 |
|              |                           |      | 1/250        | 6.0                       | 7.2  | 292                   | 244  | 29.5    | 24.5 | 4450                       | 454 |

圖F-5 G3L18(5)X101-(3~60)K+200WS3F

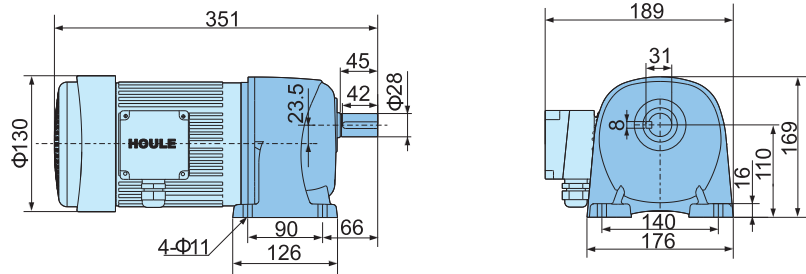


圖F-6 G3L22(7)X101-(3~250)K+200WS3F





圖F-7 G3L28(7)X110-(120~250)K+200WS3F



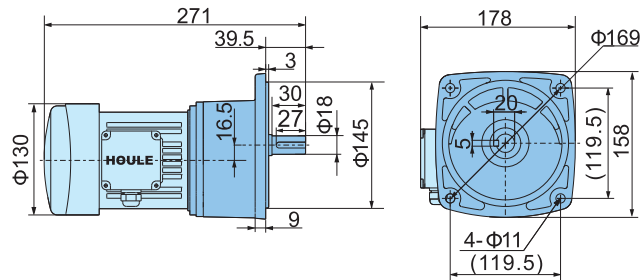
0.2kW

HORIZONTAL 卧式  
1-PHASE/3-PHASE 單相/三相

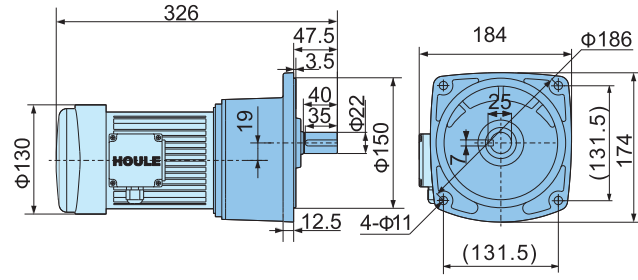


G3V18(5)X101-(3~60)K+200W

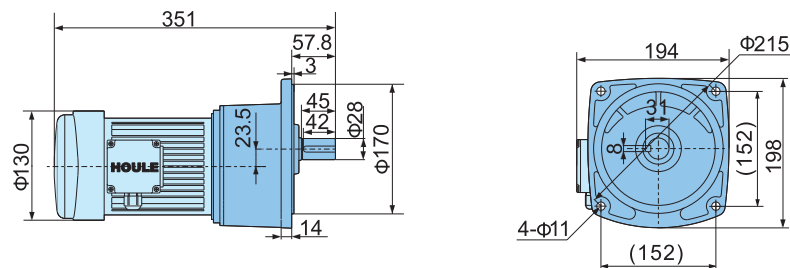
圖F-8 G3V18(5)X101-(3~60)K+200W S3F



圖F-9 G3V22(7)X110-(3~250)K+200W S3F



圖F-10 G3V28(8)X110-(120~250)K+200W S3F



0.4kW

HORIZONTAL 卧式  
1-PHASE/3-PHASE 單相/三相

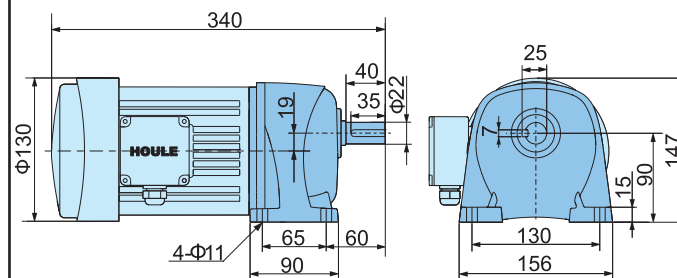


G3L22(7)X110-(3~120)K+400W

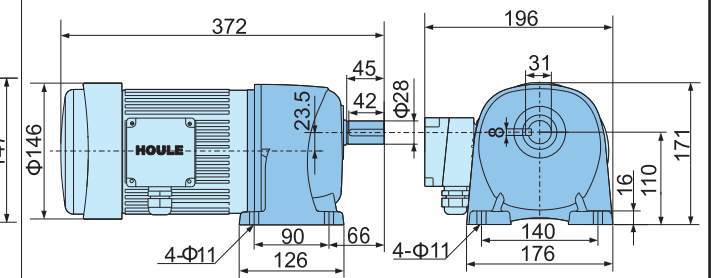
| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Currment 額定電流 (A) |      | Rated Speed<br>額定轉速(rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|-------------------------|------|--------------------------|--------------------------|--------------------------|
|             |                         | 50Hz                    | 60Hz |                          |                          |                          |
| 0.4kW       | 380                     | 1.34                    | 1.10 | 1400                     | B                        | 20 54                    |
|             | 220                     | 2.14                    | 1.90 | 1400                     |                          |                          |

| Power<br>功 率 | Overall Dimensions<br>外形圖 |              | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) |      | Output Torque<br>輸出轉矩 |       |         |      | Output shaft<br>輸出軸容許軸向力負荷 |     |
|--------------|---------------------------|--------------|--------------|---------------------------|------|-----------------------|-------|---------|------|----------------------------|-----|
|              |                           |              |              |                           |      | N · m                 |       | kgf · m |      |                            |     |
|              |                           |              |              | 50Hz                      | 60Hz | 50Hz                  | 60Hz  | 50Hz    | 60Hz | N                          | kgf |
| 0.4kW        | Φ22(7)                    | F-11<br>F-14 | 1/3          | 500                       | 600  | 7.6                   | 6.3   | 0.76    | 0.63 | 950                        | 96  |
|              |                           |              | 1/5          | 300                       | 360  | 12                    | 9.5   | 1.2     | 0.95 | 1140                       | 116 |
|              |                           |              | 1/7.5        | 200                       | 240  | 19                    | 15.9  | 1.9     | 1.6  | 1270                       | 129 |
|              |                           |              | 1/10         | 150                       | 180  | 25                    | 21    | 2.5     | 2.1  | 1530                       | 156 |
|              | Φ28(8)                    | F-12         | 1/12.5       | 120                       | 144  | 31.8                  | 26.5  | 3.2     | 2.7  | 2180                       | 222 |
|              |                           |              | 1/15         | 100                       | 120  | 38.1                  | 32    | 3.9     | 3.2  | 2560                       | 261 |
|              |                           |              | 1/20         | 75                        | 90   | 50.9                  | 42.4  | 5.2     | 4.3  | 2930                       | 298 |
|              |                           |              | 1/30         | 50                        | 60   | 73                    | 60    | 7.4     | 6.0  | 3310                       | 337 |
|              |                           | F-15         | 1/40         | 37.5                      | 45   | 94                    | 78    | 9.6     | 7.8  | 3690                       | 376 |
|              |                           |              | 1/50         | 30                        | 36   | 117                   | 98    | 11.9    | 9.8  | 4080                       | 416 |
|              |                           |              | 1/60         | 25                        | 30   | 140                   | 117   | 14.3    | 12   | 4450                       | 454 |
|              |                           |              | 1/80         | 18.8                      | 22.5 | 187                   | 156   | 19.1    | 16   | 4450                       | 454 |
|              | Φ32(10)                   | F-13<br>F-16 | 1/100        | 15                        | 18   | 234                   | 212.2 | 23.9    | 21.3 | 6370                       | 650 |
|              |                           |              | 1/120        | 12.5                      | 15   | 281                   | 232.3 | 28.7    | 23.7 | 7640                       | 779 |
|              |                           |              | 1/160        | 9.4                       | 11.3 | 374                   | 311.6 | 38.2    | 31.8 | 7640                       | 779 |
|              |                           |              | 1/200        | 7.5                       | 9.0  | 431                   | 389.1 | 44      | 39.7 | 7640                       | 779 |
|              |                           |              | 1/250        | 6.0                       | 7.2  | 636.7                 | 53    | 63.7    | 53   | 7640                       | 779 |

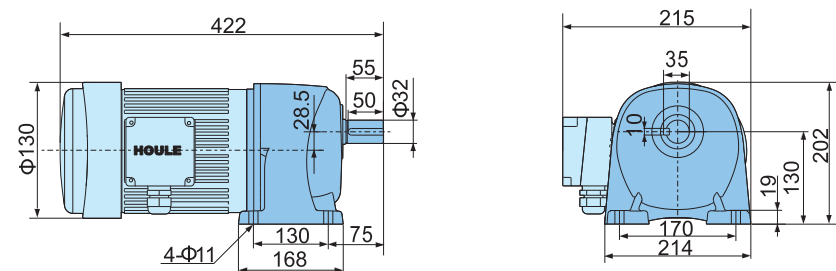
圖F-11 G3L22(7)X110-(3~120)K+400W S3F



圖F-12 G3L28(8)X120-(3~250)K+400W S3F



圖F-13 G3L32(10)X110-(100~200)K+400WS3F



0.4kW

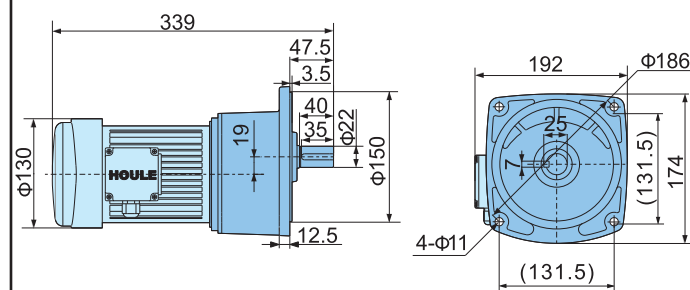
VERTICAL 立式

1-PHASE/3-PHASE 單相/三相

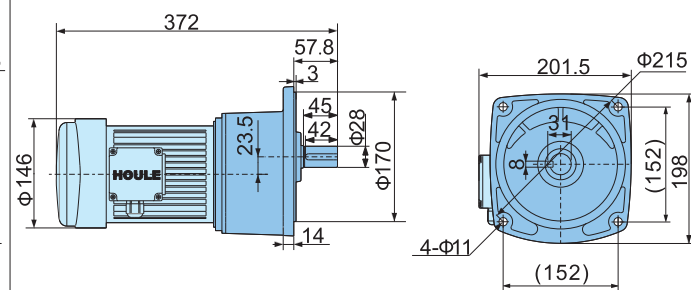


G3V22(7)X110-(3~90)K+400WS3F

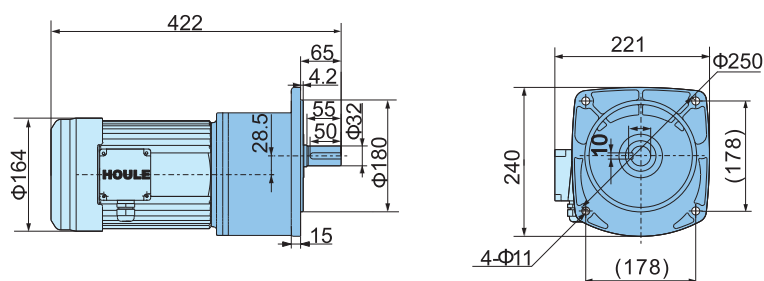
圖F-14 G3V22(7)X110-(3~90)K+400WS3F



圖F-15 G3V28(8)X120-(12.5~250)K+400WS3F



圖F-16 G3V32(10)X140-(70~200)K+400WS3F



0.55kW

HORIZONTAL 臥式

1-PHASE/3-PHASE 單相/三相

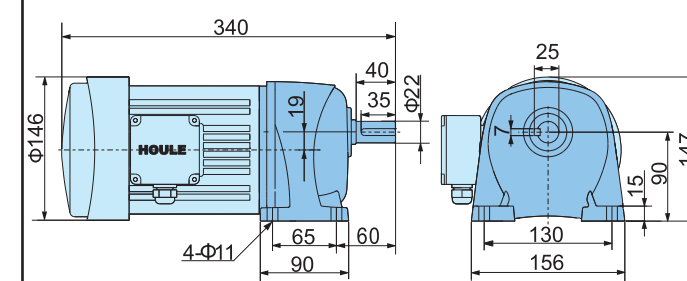


G3L22(7)X120-(3~90)K+550WS3F

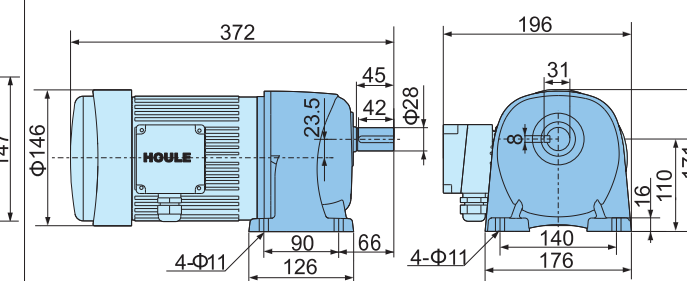
| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Currment 額定電流 (A) |      | Rated Speed<br>額定轉速(rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|-------------------------|------|--------------------------|--------------------------|--------------------------|
|             |                         | 50Hz                    | 60Hz |                          |                          |                          |
| 0.55kW      | 380                     | 1.42                    | 1.17 | 1400                     | B                        | 20 54                    |
|             | 220                     | 2.02                    | 1.90 | 1400                     |                          |                          |

| Power<br>功 率 | Overall Dimensions<br>外形圖 |       | Ratio<br>減速比 | Output speed<br>輸出轉速(rpm) |      | Output Torque<br>輸出轉矩 |       |         |      | Output shaft<br>輸出軸容許軸向力負荷 |     |
|--------------|---------------------------|-------|--------------|---------------------------|------|-----------------------|-------|---------|------|----------------------------|-----|
|              |                           |       |              |                           |      | N · m                 |       | kgf · m |      |                            |     |
|              |                           |       |              | 50Hz                      | 60Hz | 50Hz                  | 60Hz  | 50Hz    | 60Hz | N                          | kgf |
| 0.55kW       | Φ22(7)                    | F-17  | 1/3          | 500                       | 600  | 10.5                  | 8.8   | 1.1     | 0.9  | 1200                       | 122 |
|              |                           |       | 1/5          | 300                       | 360  | 17.5                  | 14.6  | 1.75    | 1.46 | 1520                       | 155 |
|              |                           |       | 1/7.5        | 200                       | 240  | 26.3                  | 21.9  | 2.7     | 2.2  | 1830                       | 186 |
|              |                           |       | 1/10         | 150                       | 180  | 35                    | 29.1  | 3.5     | 3.0  | 2150                       | 219 |
|              |                           | F-20  | 1/12.5       | 120                       | 144  | 43.8                  | 36.5  | 4.5     | 3.7  | 2410                       | 245 |
|              |                           |       | 1/15         | 100                       | 120  | 52.5                  | 43.7  | 5.3     | 4.4  | 2670                       | 272 |
|              |                           |       | 1/20         | 75                        | 90   | 70                    | 58.5  | 7.0     | 5.9  | 2920                       | 297 |
|              |                           |       | 1/30         | 50                        | 60   | 105                   | 87.5  | 10.5    | 8.8  | 2090                       | 519 |
|              | Φ28(8)                    | F-18  | 1/40         | 37.5                      | 45   | 140                   | 116.7 | 14      | 11.7 | 5340                       | 544 |
|              |                           |       | 1/50         | 30                        | 36   | 175                   | 146   | 17.5    | 14.6 | 5650                       | 576 |
|              |                           |       | 1/60         | 25                        | 30   | 210                   | 175   | 21      | 17.5 | 5950                       | 607 |
|              |                           |       | 1/80         | 18.8                      | 22.5 | 280                   | 233.4 | 28      | 23.4 | 6050                       | 617 |
|              |                           | F-21  | 1/100        | 15                        | 18   | 350                   | 291.8 | 35      | 29.3 | 6770                       | 690 |
|              |                           |       | 1/120        | 12.5                      | 15   | 420                   | 350   | 42      | 35   | 6770                       | 690 |
|              |                           |       | 1/160        | 9.4                       | 11.3 | 560                   | 466.8 | 56      | 46.7 | 9170                       | 935 |
|              |                           |       | 1/200        | 7.5                       | 9.0  | 700                   | 583.6 | 70      | 58.4 | 9170                       | 935 |
|              | Φ32<br>(10)               | F-19  |              |                           |      |                       |       |         |      |                            |     |
| F-22         |                           | 1/250 | 6.0          | 7.2                       | 875  | 729.5                 | 87.5  | 73      | 9170 | 935                        |     |

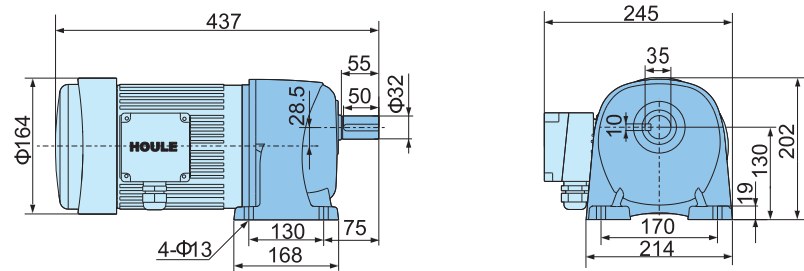
圖F-17 G3L22(7)X120-(3~90)K+550WS3F



圖F-18 G3L28(8)X120-(12.5~250)K+550WS3F



圖F-19 G3L32(10)X140-(100~200)K+550WS3F



0.55kW

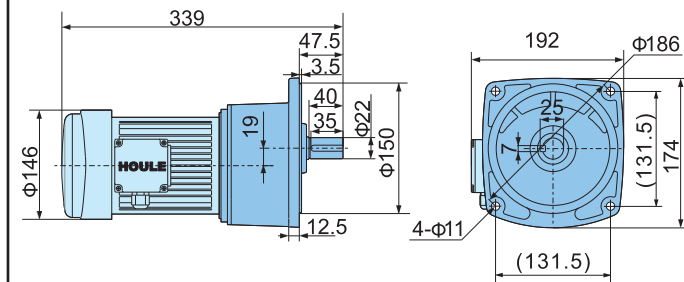
VERTICAL 立式

1-PHASE/3-PHASE 單相/三相

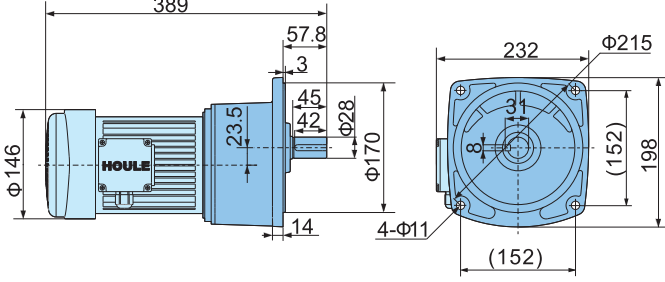


G3V22(7)X120-(3~90)K+550WS3F

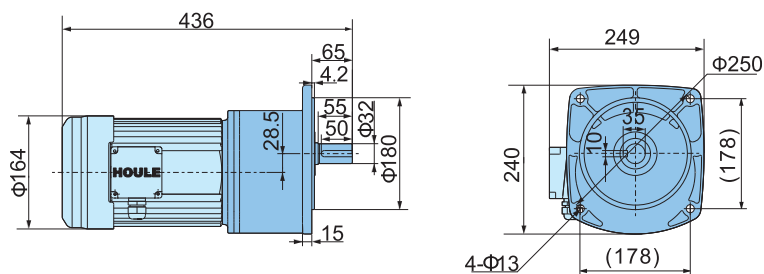
圖F-20 G3V22(7)X120-(3~90)K+550WS3F



圖F-21 G3V28(8)X120-(12.5~250)K+550WS3F



圖F-22 G3V32(10)X140-(100~200)K+550W



0.75kW

HORIZONTAL 卧式

1-PHASE/3-PHASE 單相/三相

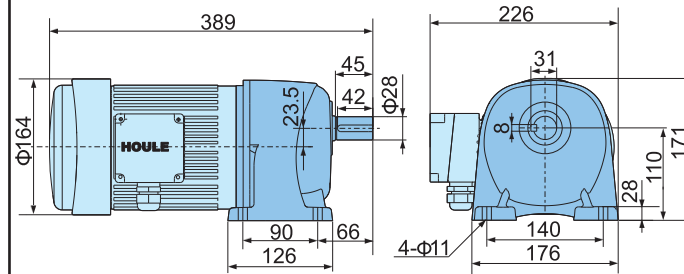


G3L28(8)X140-(3~120)K+750WS3F

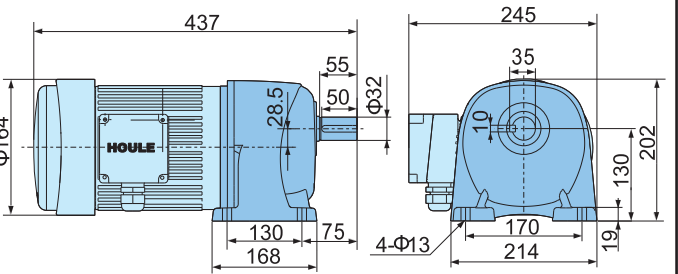
| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Currment 額定電流 (A) |      | Rated Speed<br>額定轉速(rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|-------------------------|------|--------------------------|--------------------------|--------------------------|
|             |                         | 50Hz                    | 60Hz |                          |                          |                          |
| 0.75kW      | 380                     | 2.20                    | 1.96 | 1400                     | B                        | 20 54                    |
|             | 220                     | 3.93                    | 3.40 | 1400                     |                          |                          |

| Power<br>功 率 | Overall Dimensions<br>外形圖 |       | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) |       | Output Torque<br>輸出轉矩 |       |         |       | Output shaft<br>輸出軸容許軸向力負荷 |       |      |
|--------------|---------------------------|-------|--------------|---------------------------|-------|-----------------------|-------|---------|-------|----------------------------|-------|------|
|              |                           |       |              |                           |       | N · m                 |       | kgf · m |       |                            |       |      |
|              |                           |       |              | 50Hz                      | 60Hz  | 50Hz                  | 60Hz  | 50Hz    | 60Hz  | N                          | kgf   |      |
| 0.75kW       | Φ28(8)                    | F-23  | 1/3          | 500                       | 600   | 14.2                  | 11.9  | 1.42    | 1.2   | 1330                       | 135   |      |
|              |                           |       | 1/5          | 300                       | 360   | 23                    | 19    | 2.3     | 1.9   | 1650                       | 168   |      |
|              |                           |       | 1/7.5        | 200                       | 240   | 35.8                  | 29.5  | 3.6     | 3.0   | 1960                       | 200   |      |
|              |                           | F-26  | 1/10         | 150                       | 180   | 45                    | 38    | 4.6     | 3.8   | 2280                       | 232   |      |
|              |                           |       | 1/12.5       | 120                       | 144   | 59                    | 49    | 5.9     | 4.9   | 2540                       | 259   |      |
|              |                           |       | 1/15         | 100                       | 120   | 68                    | 57    | 6.9     | 5.7   | 2800                       | 285   |      |
|              | Φ32(10)                   | F-24  | 1/20         | 75                        | 90    | 95.5                  | 79.6  | 9.6     | 8.0   | 3050                       | 311   |      |
|              |                           |       | 1/30         | 50                        | 60    | 136                   | 114   | 13.9    | 11.5  | 5220                       | 532   |      |
|              |                           |       | 1/40         | 37.5                      | 45    | 175                   | 146   | 17.9    | 14.7  | 5470                       | 558   |      |
|              |                           |       | 1/50         | 30                        | 36    | 220                   | 183   | 22.4    | 18.5  | 5780                       | 589   |      |
|              |                           |       | 1/60         | 25                        | 30    | 264                   | 220   | 26.9    | 22.2  | 6080                       | 620   |      |
|              |                           |       | 1/80         | 18.8                      | 22.5  | 351                   | 293   | 35.8    | 29.7  | 6180                       | 630   |      |
|              |                           | F-27  | 1/100        | 15                        | 18    | 362                   | 302   | 36.9    | 30.6  | 7640                       | 779   |      |
|              |                           |       | 1/120        | 12.5                      | 15    | 573                   | 477.4 | 57.3    | 47.8  | 7640                       | 779   |      |
|              |                           |       | Φ40(10)      | F-25<br>F-28              | 1/160 | 9.4                   | 11.3  | 703     | 585   | 71.7                       | 596.5 | 9170 |
|              |                           | 1/200 |              |                           | 7.5   | 9.0                   | 764   | 732     | 78    | 74.5                       | 9170  | 935  |
|              |                           | 1/250 |              |                           | 6.0   | 7.2                   | 1193  | 995     | 119.3 | 99.5                       | 9170  | 935  |

圖F-23 G3L28(8)X140-(3~120)K+750WS3F

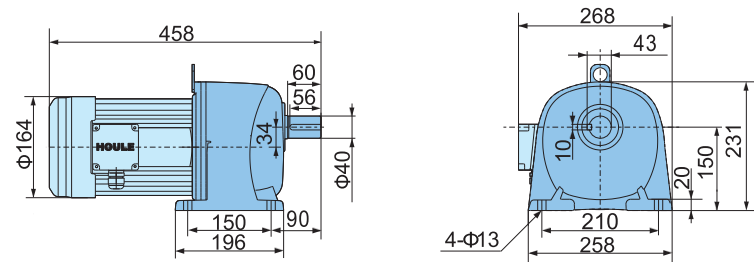


圖F-24 G3L32(10)X140-(3~200)K+750WS3F





圖F-25 G3L40(10)X160-(135~200)K+750W



## 0.75KW

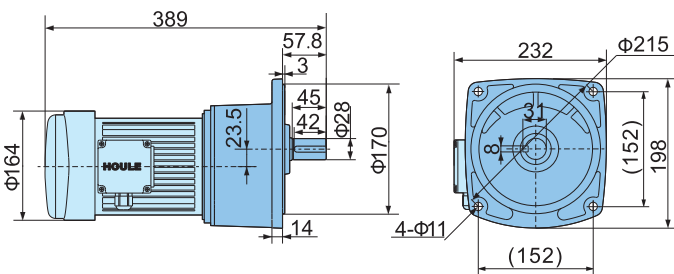
VERTICAL 立式

1-PHASE/3-PHASE 單相/三相

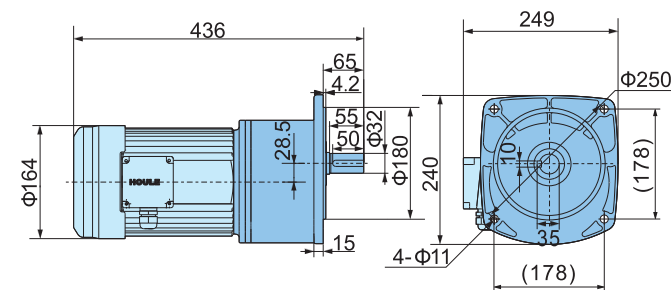


G3V28(8)X140-(3~120)K+750WS3F

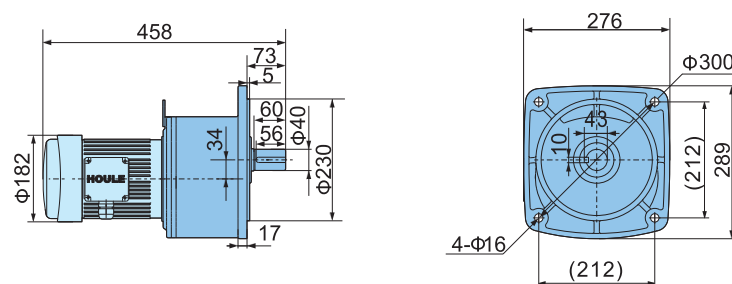
圖F-26 G3V28(8)X140-(3~120)K+750WS3F



圖F-27 G3V32(10)X140-(3~200)K+750WS3F



圖F-28 G3V40(10)X160-(135~200)K+750WS3F



## 1.1kW

HORIZONTAL 臥式

1-PHASE/3-PHASE 單相/三相

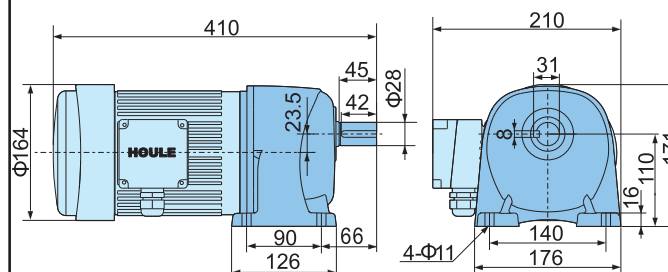


G3L28(8)X140-(3~60)K+1100WS3F

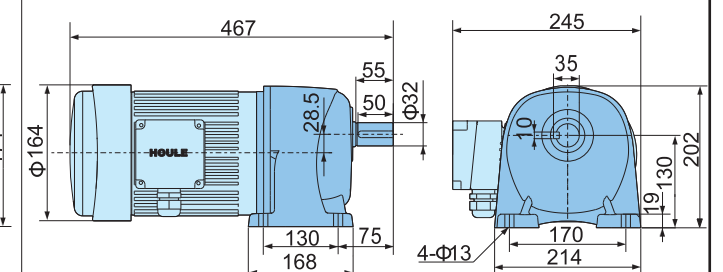
| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Currment 額定電流 (A) |      | Rated Speed<br>額定轉速(rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|-------------------------|------|--------------------------|--------------------------|--------------------------|
|             |                         | 50Hz                    | 60Hz |                          |                          |                          |
| 1.1kW       | 380                     | 2.7                     | 2.49 | 1400                     | B                        | 20 54                    |
|             | 220                     | 4.72                    | 4.31 | 1400                     |                          |                          |

| Power<br>功 率 | Overall Dimensions<br>外形圖 |      | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) |       | Output Torque<br>輸出轉矩 |       |         |       | Output shaft<br>輸出軸容許軸向力負荷 |     |       |      |
|--------------|---------------------------|------|--------------|---------------------------|-------|-----------------------|-------|---------|-------|----------------------------|-----|-------|------|
|              |                           |      |              |                           |       | N · m                 |       | kgf · m |       | N                          | kgf |       |      |
|              |                           |      |              |                           |       | 50Hz                  | 60Hz  | 50Hz    | 60Hz  |                            |     |       |      |
| 1.1kW        | Φ28(8)                    | F-29 | 1/3          | 500                       | 600   | 21                    | 17.5  | 2.1     | 1.8   | 1590                       | 162 |       |      |
|              |                           |      | 1/5          | 300                       | 360   | 35                    | 29    | 3.5     | 2.9   | 1910                       | 194 |       |      |
|              |                           |      | 1/7.5        | 200                       | 240   | 52.5                  | 43.8  | 5.3     | 4.4   | 2220                       | 226 |       |      |
|              |                           |      | 1/10         | 150                       | 180   | 70                    | 58.3  | 7.0     | 6.0   | 2540                       | 259 |       |      |
|              |                           | F-32 | 1/12.5       | 120                       | 144   | 87.5                  | 72.9  | 8.8     | 7.3   | 2800                       | 285 |       |      |
|              |                           |      | 1/15         | 100                       | 120   | 105                   | 87.5  | 10.5    | 8.8   | 3050                       | 311 |       |      |
|              |                           |      | 1/20         | 75                        | 90    | 140                   | 116.7 | 14      | 11.9  | 3310                       | 337 |       |      |
|              |                           |      | 1/30         | 50                        | 60    | 210                   | 175   | 21      | 17.5  | 5980                       | 610 |       |      |
|              | Φ32(10)                   | F-30 | 1/40         | 37.5                      | 45    | 280                   | 233.4 | 28      | 23.5  | 6080                       | 620 |       |      |
|              |                           |      | 1/50         | 30                        | 36    | 350                   | 281.8 | 35      | 28.2  | 6400                       | 653 |       |      |
|              |                           |      | 1/60         | 25                        | 30    | 420                   | 350   | 42      | 35    | 6720                       | 685 |       |      |
|              |                           |      | 1/80         | 18.8                      | 22.5  | 560                   | 466.8 | 56      | 46.7  | 7040                       | 718 |       |      |
|              |                           | F-33 | 1/100        | 15                        | 18    | 700                   | 583.6 | 70      | 58.5  | 7360                       | 751 |       |      |
|              |                           |      | 1/120        | 12.5                      | 15    | 840                   | 700   | 84      | 70    | 7680                       | 783 |       |      |
|              |                           |      | Φ40(10)      | F-31                      | 1/160 | 9.4                   | 11.3  | 1120    | 933.6 | 112                        | 95  | 10000 | 1020 |
|              |                           |      |              | F-34                      | 1/200 | 7.5                   | 9.0   | 1400    | 1167  | 140                        | 117 | 10100 | 1030 |

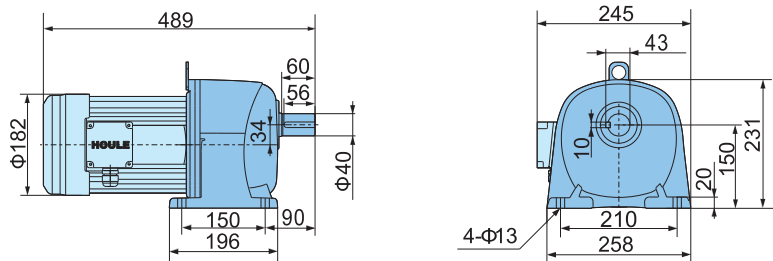
圖F-29 G3L28(8)X140-(3~60)K+1100WS3F



圖F-30 G3L32(10)X140-(3~200)K+1100WS3F



圖F-31 G3L40(10)X160-(30~200)K+1100WS3F



1.1kW

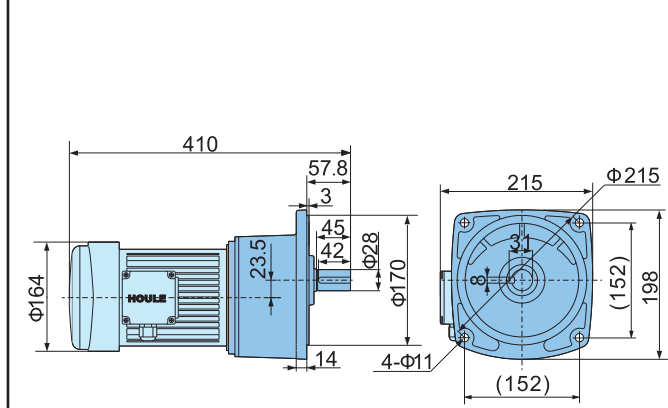
VERTICAL 立式

1-PHASE/3-PHASE 單相/三相

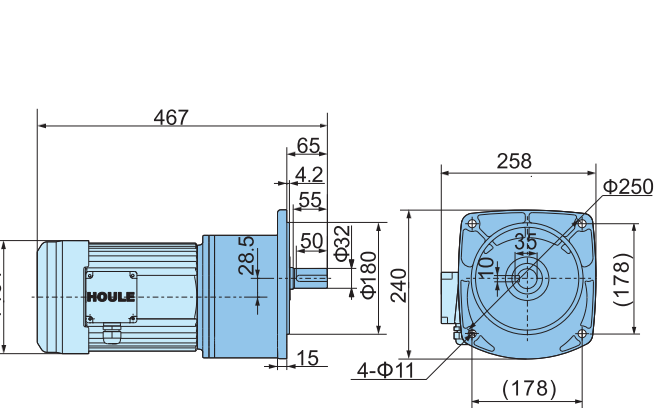


G3V28(8)X140-(3~60)K+1100WS3F

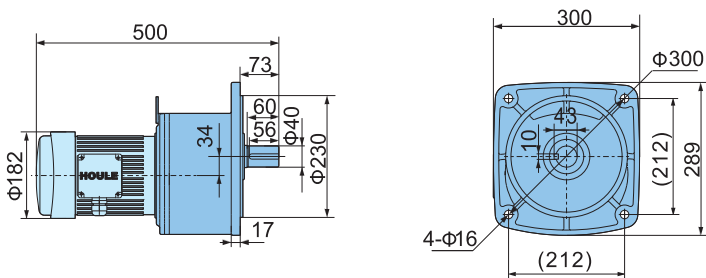
圖F-32 G3V28(8)X140-(3~60)K+1100WS3F



圖F-33 G3V32(10)X140-(3~200)K+1100WS3F



圖F-34 G3V40(10)X160-(30~200)K+1100WS3F



1.5kW

HORIZONTAL 臥式

1-PHASE/3-PHASE 單相/三相

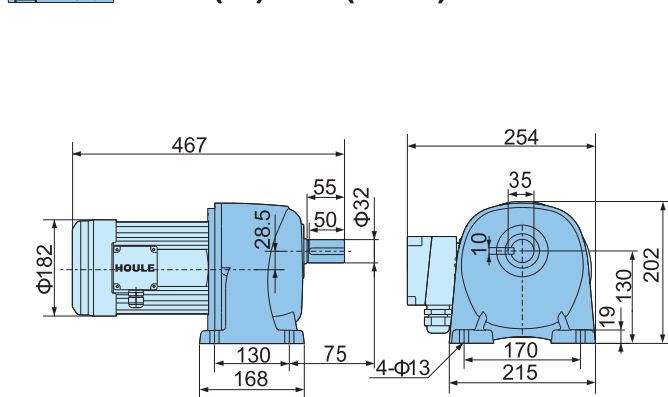


G3V32(10)X160-(3~120)K+1500WS3F

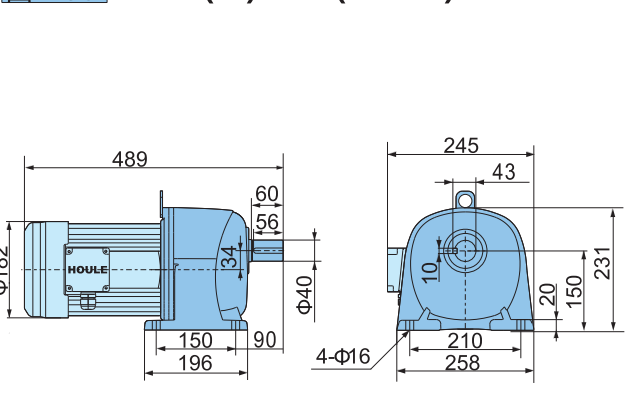
| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Currment 額定電流 (A) |      | Rated Speed<br>額定轉速(rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|-------------------------|------|--------------------------|--------------------------|--------------------------|
|             |                         | 50Hz                    | 60Hz |                          |                          |                          |
| 1.5kW       | 380                     | 3.82                    | 3.53 | 1400                     | B                        | 20 54                    |
|             | 220                     | 6.59                    | 6.10 | 1400                     |                          |                          |

| Power<br>功 率 | Overall Dimensions<br>外形圖 |      | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) |      | Output Torque<br>輸出轉矩 |       |         |      | Output shaft<br>輸出軸容許軸向力負荷 |      |
|--------------|---------------------------|------|--------------|---------------------------|------|-----------------------|-------|---------|------|----------------------------|------|
|              |                           |      |              |                           |      | N · m                 |       | kgf · m |      |                            |      |
|              |                           |      |              | 50Hz                      | 60Hz | 50Hz                  | 60Hz  | 50Hz    | 60Hz | N                          | kgf  |
| 1.5kW        | Φ32(10)                   | F-35 | 1/3          | 500                       | 600  | 28.5                  | 23.8  | 2.9     | 2.5  | 2020                       | 206  |
|              |                           |      | 1/5          | 300                       | 360  | 45                    | 38    | 4.6     | 3.8  | 2280                       | 232  |
|              |                           |      | 1/7.5        | 200                       | 240  | 71.6                  | 59.6  | 7.2     | 6.0  | 2540                       | 259  |
|              |                           |      | 1/10         | 150                       | 180  | 91                    | 75    | 9.3     | 7.5  | 3180                       | 324  |
|              |                           | F-38 | 1/12.5       | 120                       | 144  | 119.3                 | 99.5  | 12      | 10   | 3430                       | 350  |
|              |                           |      | 1/15         | 100                       | 120  | 136                   | 114   | 13.9    | 11.5 | 3690                       | 376  |
|              |                           |      | 1/20         | 75                        | 90   | 181                   | 151   | 18.5    | 15.3 | 4190                       | 427  |
|              |                           |      | 1/30         | 50                        | 60   | 266.5                 | 238.7 | 28.7    | 23.9 | 6600                       | 673  |
|              | Φ40(10)                   | F-36 | 1/40         | 37.5                      | 45   | 351                   | 293   | 35.8    | 29.7 | 6960                       | 710  |
|              |                           |      | 1/50         | 30                        | 36   | 439                   | 366   | 44.8    | 37.2 | 6960                       | 710  |
|              |                           | F-39 | 1/60         | 25                        | 30   | 527                   | 439   | 53.8    | 44.5 | 7210                       | 735  |
|              |                           |      | 1/80         | 18.8                      | 22.5 | 703                   | 585   | 71.7    | 59.5 | 7400                       | 755  |
|              | Φ50(14)                   | F-37 | 1/100        | 15                        | 18   | 878                   | 790   | 87.8    | 79   | 7400                       | 755  |
|              |                           |      | 1/120        | 12.5                      | 15   | 1060                  | 954.9 | 108     | 96   | 12500                      | 1275 |
|              |                           | F-40 | 1/160        | 9.4                       | 11.3 | 1230                  | 1146  | 125     | 115  | 12500                      | 1275 |
|              |                           |      | 1/200        | 7.5                       | 9.0  | 1910                  | 1590  | 191     | 162  | 12500                      | 1275 |

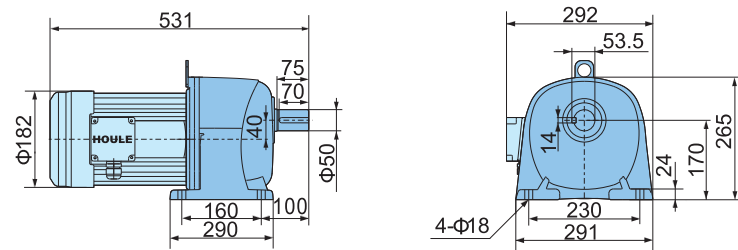
圖F-35 G3L32(10)X160-(3~120)K+1500WS3F



圖F-36 G3L40(10)X160-(40~200)K+1500WS3F



圖F-37 G3L50(14)X160-(160~200)K+1500WS3F



1.5kW

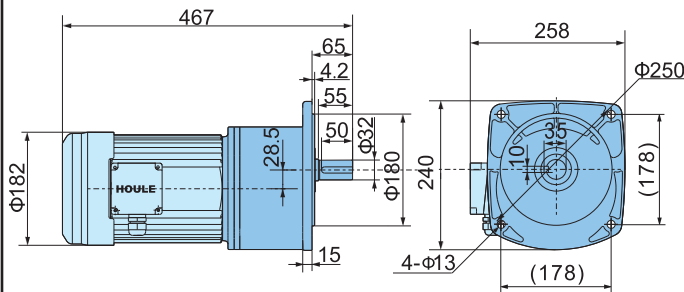
VERTICAL 立式

1-PHASE/3-PHASE 單相/三相

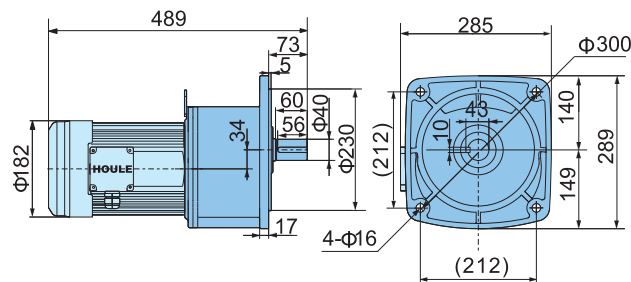


G3V32(10)X160-(3~120)K+1500WS3F

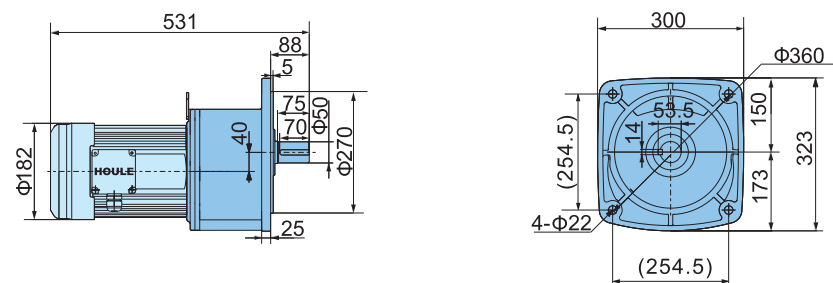
圖F-38 G3V32(10)X160-(3~120)K+1500WS3F



圖F-39 G3V40(10)X160-(40~200)K+1500WS3F



圖F-40 G3V50(14)X160-(160~200)K+1500WS3F



2.2kW

HORIZONTAL 臥式

1-PHASE/3-PHASE 單相/三相

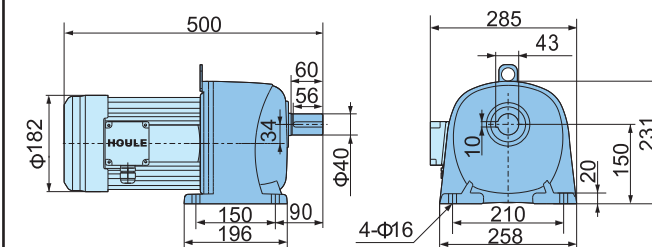


G3L40(10)X160-(3~200)K+2200WS3F

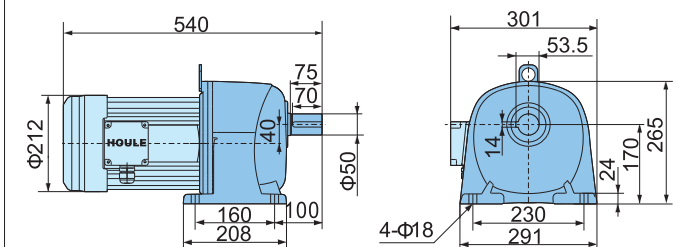
| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Currment 額定電流 (A) |      | Rated Speed<br>額定轉速(rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|-------------------------|------|--------------------------|--------------------------|--------------------------|
|             |                         | 50Hz                    | 60Hz |                          |                          |                          |
| 2.2kW       | 380                     | 6.0                     | 5.04 | 1400                     | B                        | 20 54                    |
|             | 220                     | 8.94                    | 8.70 | 1400                     |                          |                          |

| Power<br>功 率 | Overall Dimensions<br>外形圖 |         | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) |       | Output Torque<br>輸出轉矩 |      |         |      | Output shaft<br>輸出軸容許軸向力負荷 |      |     |
|--------------|---------------------------|---------|--------------|---------------------------|-------|-----------------------|------|---------|------|----------------------------|------|-----|
|              |                           |         |              |                           |       | N · m                 |      | kgf · m |      |                            |      |     |
|              |                           |         |              | 50Hz                      | 60Hz  | 50Hz                  | 60Hz | 50Hz    | 60Hz | N                          | kgf  |     |
| 2.2kW        | Φ40(10)                   | F-41    | 1/3          | 500                       | 600   | 28.5                  | 23.8 | 2.9     | 2.5  | 2020                       | 206  |     |
|              |                           |         | 1/5          | 300                       | 360   | 45                    | 38   | 4.6     | 3.8  | 2280                       | 232  |     |
|              |                           |         | 1/7.5        | 200                       | 240   | 71.6                  | 59.6 | 7.2     | 6.0  | 2540                       | 259  |     |
|              |                           |         | 1/10         | 150                       | 180   | 91                    | 75   | 9.3     | 7.5  | 3180                       | 324  |     |
|              |                           | 1/12.5  | 120          | 144                       | 119.3 | 99.5                  | 12   | 10      | 3430 | 350                        |      |     |
|              |                           | 1/15    | 100          | 120                       | 136   | 114                   | 13.9 | 11.5    | 3690 | 376                        |      |     |
|              |                           | 1/20    | 75           | 90                        | 181   | 151                   | 18.5 | 15.3    | 4190 | 427                        |      |     |
|              |                           | 1/30    | 50           | 60                        | 266.5 | 238.7                 | 28.7 | 23.9    | 6600 | 673                        |      |     |
|              | F-43                      | 1/40    | 37.5         | 45                        | 351   | 293                   | 35.8 | 29.7    | 6960 | 710                        |      |     |
|              |                           | Φ50(14) | F-42         | 1/50                      | 30    | 36                    | 439  | 366     | 44.8 | 37.2                       | 6960 | 710 |
|              |                           |         |              | 1/60                      | 25    | 30                    | 527  | 439     | 53.8 | 44.5                       | 7210 | 735 |
|              |                           |         | F-44         | 1/80                      | 18.8  | 22.5                  | 703  | 585     | 71.7 | 59.5                       | 7400 | 755 |
|              | 1/100                     |         |              | 15                        | 18    | 878                   | 790  | 87.8    | 79   | 7400                       | 755  |     |

圖F-41 G3L40(10)X160-(3~200)K+2200WS3F



圖F-42 G3L50(14)X180-(3~100)K+2200WS3F



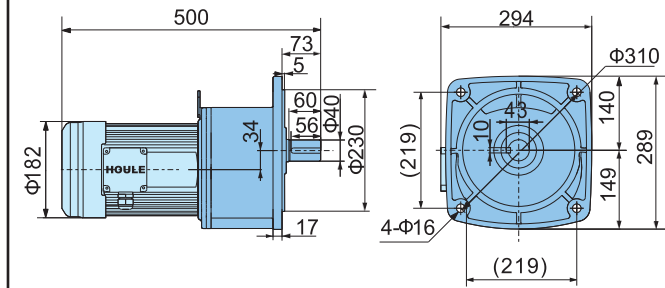


2.2kW  
VERTICAL 立式  
1-PHASE/3-PHASE 單相/三相

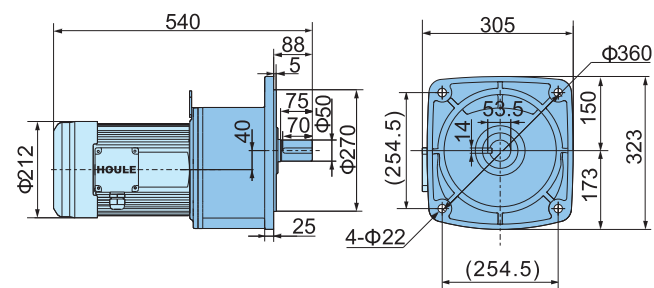


G3V40(10)X160-(3~200)K+2200W S3F

圖F-43 G3V40(10)X160-(3~200)K+2200W S3F



圖F-44 G3V50(14)X180-(3~100)K+2200WS3F



3.7kW  
HORIZONTAL 臥式  
1-PHASE/3-PHASE 單相/三相

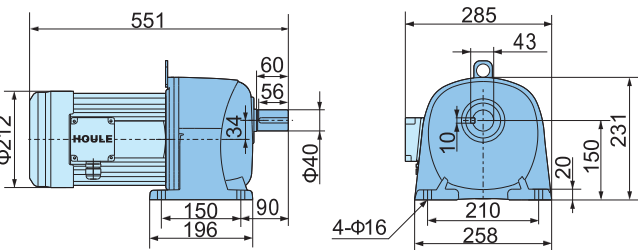


G3L40(10)X180-(3~60)K+3700WS3F

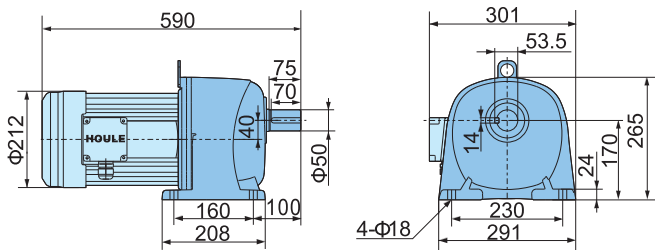
| Power<br>功率 | Rated Voltage<br>電壓 (V) | Rated Currment 額定電流 (A) |      | Rated Speed<br>額定轉速(rpm) | Insucation class<br>絕緣等級 | Protection class<br>防護等級 |
|-------------|-------------------------|-------------------------|------|--------------------------|--------------------------|--------------------------|
|             |                         | 50Hz                    | 60Hz |                          |                          |                          |
| 3.7kW       | 380                     | 7.55                    | 7.82 | 1400                     | B                        | 20 54                    |
|             | 220                     | 13.85                   | 13.5 | 1400                     |                          |                          |

| Power<br>功 率 | Overall Dimensions<br>外形圖 |        | Ratio<br>減速比 | Output Speed<br>輸出轉速(rpm) |       | Output Torque<br>輸出轉矩 |       |         |      | Output shaft<br>輸出軸容許軸向力負荷 |     |
|--------------|---------------------------|--------|--------------|---------------------------|-------|-----------------------|-------|---------|------|----------------------------|-----|
|              |                           |        |              |                           |       | N · m                 |       | kgf · m |      |                            |     |
|              |                           |        |              | 50Hz                      | 60Hz  | 50Hz                  | 60Hz  | 50Hz    | 60Hz | N                          | kgf |
| 3.7kW        | Φ40(10)                   | F-45   | 1/3          | 500                       | 600   | 70                    | 8.8   | 1.1     | 0.9  | 1200                       | 122 |
|              |                           |        | 1/5          | 300                       | 360   | 117.7                 | 14.6  | 1.75    | 1.46 | 1520                       | 155 |
|              |                           |        | 1/7.5        | 200                       | 240   | 176.7                 | 21.9  | 2.7     | 2.2  | 1830                       | 186 |
|              |                           |        | 1/10         | 150                       | 180   | 235.5                 | 29.1  | 3.5     | 3.0  | 2150                       | 219 |
|              |                           | 1/12.5 | 120          | 144                       | 294.5 | 36.5                  | 4.5   | 3.7     | 2410 | 245                        |     |
|              |                           | 1/15   | 100          | 120                       | 353.3 | 43.7                  | 5.3   | 4.4     | 2670 | 272                        |     |
|              |                           | 1/20   | 75           | 90                        | 471.1 | 58.5                  | 7.0   | 5.9     | 2920 | 297                        |     |
|              |                           | 1/30   | 50           | 60                        | 706.7 | 87.5                  | 10.5  | 8.8     | 2090 | 519                        |     |
|              | Φ50(14)                   | F-46   | 1/40         | 37.5                      | 45    | 942.3                 | 116.7 | 14      | 11.7 | 5340                       | 544 |
|              |                           |        | 1/50         | 30                        | 36    | 1177                  | 146   | 17.5    | 14.6 | 5650                       | 576 |
|              |                           |        | 1/60         | 25                        | 30    | 1413                  | 175   | 21      | 17.5 | 5950                       | 607 |
|              |                           |        | 1/80         | 18.8                      | 22.5  | 2884                  | 233.4 | 28      | 23.4 | 6050                       | 617 |
|              |                           | F-48   | 1/100        | 15                        | 18    | 2355                  | 291.8 | 35      | 29.3 | 6770                       | 690 |

圖F-45 G3L40(10)X180-(3~60)K+3700WS3F



圖F-46 G3L50(14)X180-(5~75)K+3700WS3F



G3/4 Series medium reduction motor  
G3/4系列中型減速電機

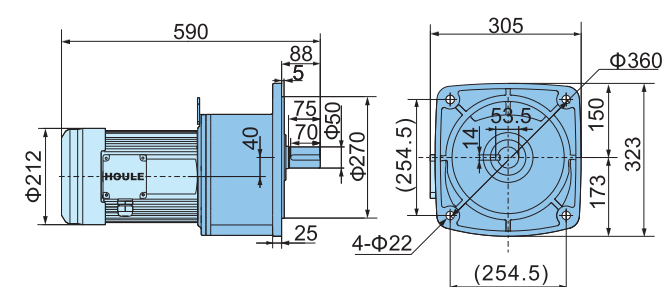
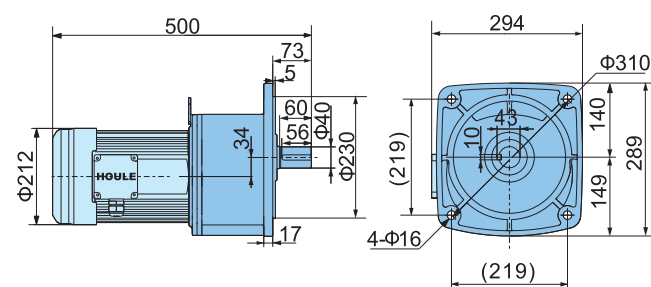
**3.7kW**

**VERTICAL 立式**

**1-PHASE/3-PHASE 單相/三相**



**G3V40(10)X180-(3~60)K+3700W S3F**



G3/4 Series medium reduction motor  
G3/4系列中型減速電機

## HIGH RATIO TYPE MEDIUM REDUCTION MOTOR 高速比中型減速電機

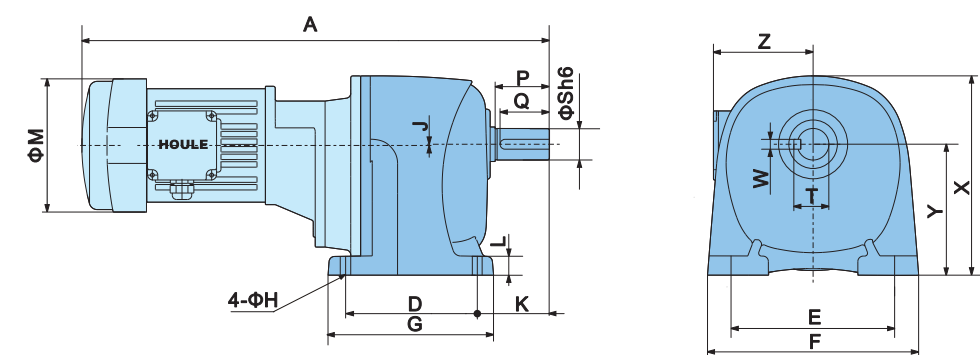


**G4L32(10)+M22-1800K-X110+200WS3F-X110**

**G4V32(10)+M22-1800K-X110+200WS3F-X110**

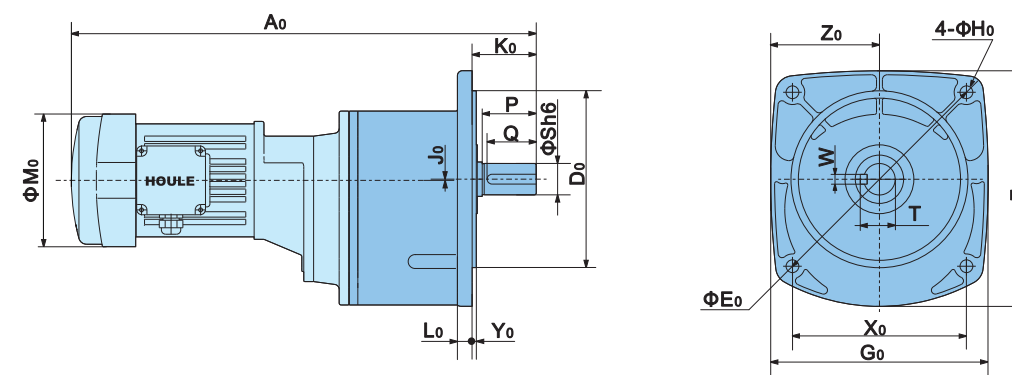
**HORIZONTAL 卧式**

**1-PHASE/3-PHASE 單相/三相**



**VERTICAL 立式**

**1-PHASE/3-PHASE 單相/三相**



### OUTPUT SHAFT 出力軸尺寸

| SIZE(S)<br>型番 | SHAFT<br>輸出軸 |    | KEYWAY<br>鍵槽 |       |    | KEY<br>鍵 |
|---------------|--------------|----|--------------|-------|----|----------|
|               | Sh6          | P  | W            | T     | Q  | SPEC     |
| 32            | Φ 32         | 55 | 10           | 35    | 50 | 10*8*50  |
| 40            | Φ 40         | 60 | 10           | 43    | 56 | 10*8*55  |
| 50            | Φ 50         | 75 | 14           | 53. 5 | 70 | 14*9*70  |

HORIZONTAL HIGH RATIO TYPE 臥式高速比

| POWER<br>功率      | RATIO<br>減速比 | CODE<br>本體 | SIZE(S)<br>型番 | A   | D   | E   | F   | G   | H  | J   | K   | L  | M   | P  | Q  | S  | T    | X   | Y   | Z   |
|------------------|--------------|------------|---------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|----|----|----|------|-----|-----|-----|
| 0.2kW            | 250-1800     | 22+32      | 32            | 474 | 130 | 170 | 214 | 168 | 13 | 1   | 75  | 19 | 135 | 55 | 50 | 32 | 35   | 202 | 130 | 101 |
| 0.4kW            | 250-1800     | 28+40      | 40            | 538 | 150 | 210 | 258 | 196 | 16 | 0.5 | 90  | 20 | 149 | 60 | 56 | 40 | 43   | 231 | 150 | 109 |
| 0.55kW<br>0.75kW | 250-1800     | 32+50      | 50            | 608 | 160 | 230 | 291 | 208 | 18 | 1.5 | 100 | 24 | 166 | 75 | 70 | 50 | 53.5 | 264 | 170 | 138 |

VERTICAL HIGH RATIO TYPE 立式高速比

| POWER<br>功率      | RATIO<br>減速比 | CODE<br>本體 | SIZE(S)<br>型番 | A <sub>0</sub> | D <sub>0</sub> | E <sub>0</sub> | F <sub>0</sub> | G <sub>0</sub> | H <sub>0</sub> | J <sub>0</sub> | K <sub>0</sub> | L <sub>0</sub> | M <sub>0</sub> | P  | Q  | S  | T    | X <sub>0</sub> | Y <sub>0</sub> | Z <sub>0</sub> |
|------------------|--------------|------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----|----|------|----------------|----------------|----------------|
| 0.2kW            | 250-1800     | 22+32      | 32            | 473            | 180            | 250            | 240            | 221            | 13             | 1              | 65             | 15             | 135            | 55 | 50 | 32 | 35.5 | 177            | 4.2            | 120            |
| 0.4kW            | 250-1800     | 28+40      | 40            | 538            | 230            | 310            | 290            | 276            | 16             | 0.5            | 73             | 17             | 149            | 60 | 56 | 40 | 43.5 | 219            | 5              | 115            |
| 0.55kW<br>0.75kW | 250-1800     | 32+50      | 50            | 607            | 270            | 360            | 323            | 300            | 22             | 1.5            | 89             | 25             | 166            | 75 | 70 | 50 | 53.5 | 255            | 5              | 150            |

IEC INPUT-TYPE REDUCER  
IEC輸入型減速器

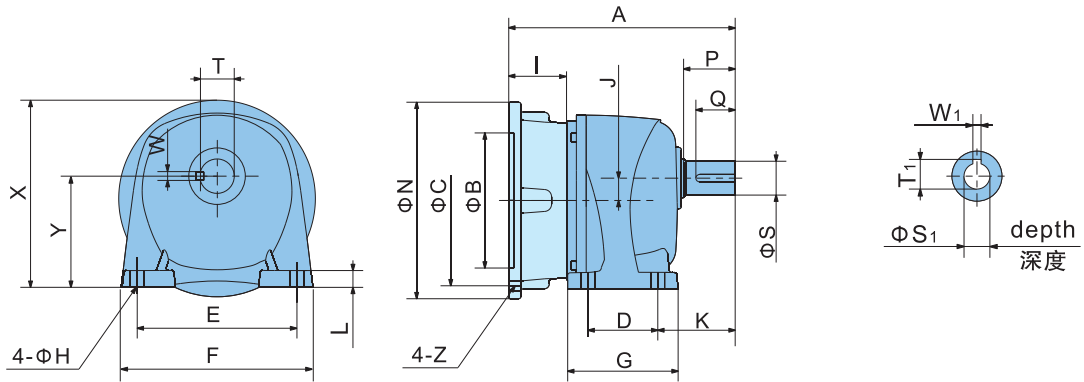


G4L28(8)-90K-B5-71  
HORIZONTAL 臥式



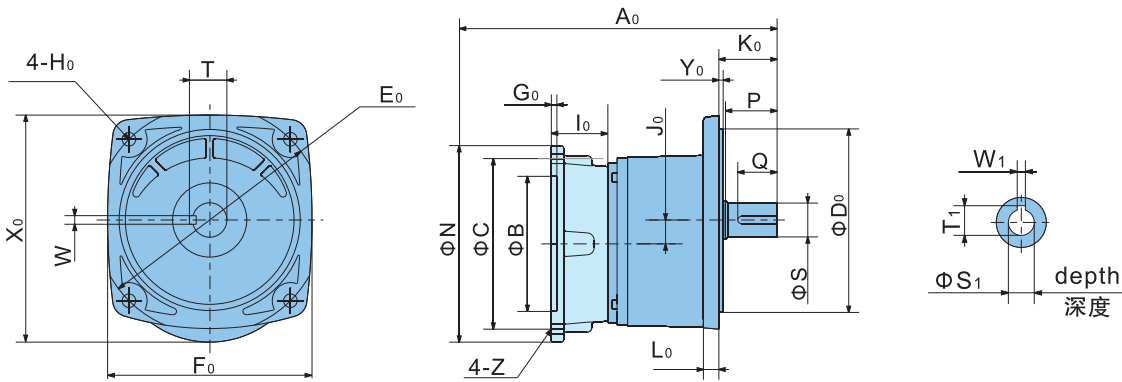
G4V28(8)-90K-B5-71  
VERTICAL 立式

HORIZONTAL IEC INPUT-TYPE 臥式IEC輸入型減速器



B563: 25mm  
B571: 30mm  
B580: 42mm  
B5112: 62mm

VERTICAL IEC INPUT-TYPE REDUCER 立式 IEC輸入型減速器



B563: 25mm  
B571: 30mm  
B580: 42mm  
B5112: 62mm

INPUT BORE 入力孔尺寸

| POWER<br>功率      | FLANGE<br>法蘭規格 | BORE<br>輸入孔    | KEYWAY<br>鍵槽   |                |
|------------------|----------------|----------------|----------------|----------------|
|                  |                | S <sub>1</sub> | W <sub>1</sub> | T <sub>1</sub> |
| 0.1kW<br>0.2kW   | B5-63          | Φ11            | 4              | 12.8           |
| 0.4kW            | B5-71          | Φ14            | 5              | 16.3           |
| 0.55kW<br>0.75kW | B5-80          | Φ19            | 6              | 21.8           |
| 1.1kW<br>1.5kW   | B5-90          | Φ24            | 8              | 27.3           |
| 2.2kW<br>3.7kW   | B5-112M        | Φ28            | 8              | 31.5           |

OUTPUT SHAFT 出力軸尺寸

| SIZE(S)<br>型番 | SHAFT<br>輸出軸 |    | KEYWAY<br>鍵槽 |      |    | KEY<br>鍵 |
|---------------|--------------|----|--------------|------|----|----------|
|               | ΦS           | P  | W            | T    | Q  | SPEC     |
| 18            | Φ18          | 30 | 5            | 20.5 | 27 | 5*5*25   |
| 22            | Φ22          | 40 | 7            | 25   | 35 | 7*7*35   |
| 28            | Φ28          | 45 | 8            | 31.1 | 40 | 8*7*40   |
| 32            | Φ32          | 55 | 10           | 35   | 50 | 10*8*50  |
| 40            | Φ40          | 70 | 10           | 43   | 63 | 10*8*60  |
| 50            | Φ50          | 75 | 14           | 53.5 | 70 | 14*9*75  |



HORIZONTAL IEC INPUT- TYPE REDUCER

卧式 IEC 輸入型減速器

| POWER<br>功率      | FLANG<br>法蘭 | RATIO<br>減速比 | SIZE(S)<br>型番 | A   | B   | C   | D   | E   | F   | G   | H  | I    | J    | K   | L    | N   | X   | Y   | Z   |
|------------------|-------------|--------------|---------------|-----|-----|-----|-----|-----|-----|-----|----|------|------|-----|------|-----|-----|-----|-----|
| 0.1kW<br>0.2kW   | B5-63       | 3-10         | 18            | 152 | 95  | 115 | 40  | 110 | 136 | 64  | 9  | 47   | 16.5 | 45  | 11.5 | 140 | 139 | 85  | M8  |
|                  |             | 15-90        | 22            | 188 | 95  | 115 | 65  | 130 | 156 | 90  | 11 | 47   | 19   | 60  | 15   | 140 | 142 | 90  | M8  |
|                  |             | 100-200      | 28            | 206 | 95  | 115 | 90  | 140 | 176 | 126 | 11 | 47   | 23.5 | 66  | 16   | 140 | 169 | 110 | M8  |
| 0.4kW            | B5-71       | 3-10         | 22            | 195 | 110 | 130 | 65  | 130 | 156 | 90  | 11 | 54   | 19   | 60  | 15   | 160 | 142 | 90  | M8  |
|                  |             | 15-90        | 28            | 213 | 110 | 130 | 90  | 140 | 176 | 126 | 11 | 54   | 23.5 | 66  | 16   | 160 | 169 | 110 | M8  |
|                  |             | 100-200      | 32            | 266 | 110 | 130 | 130 | 170 | 215 | 168 | 13 | 54   | 28.5 | 75  | 19   | 160 | 202 | 130 | M8  |
| 0.55kW<br>0.75kW | B5-80       | 3-25         | 28            | 238 | 130 | 165 | 90  | 140 | 176 | 126 | 11 | 79   | 23.5 | 66  | 16   | 200 | 169 | 110 | M10 |
|                  |             | 30-120       | 32            | 291 | 130 | 165 | 130 | 170 | 215 | 168 | 13 | 79   | 28.5 | 75  | 19   | 200 | 202 | 130 | M10 |
|                  |             | 125-200      | 40            | 313 | 130 | 165 | 150 | 210 | 258 | 196 | 16 | 79   | 34   | 90  | 20   | 200 | 231 | 150 | M10 |
| 1.1kW<br>1.5kW   | B5-90       | 3-30         | 32            | 291 | 130 | 165 | 130 | 170 | 215 | 168 | 13 | 79   | 28.5 | 75  | 19   | 200 | 202 | 130 | M10 |
|                  |             | 40-100       | 40            | 313 | 130 | 165 | 150 | 210 | 258 | 196 | 16 | 79   | 34   | 90  | 20   | 200 | 231 | 150 | M10 |
| 2.2kW            | B5-112M     | 3-40         | 40            | 324 | 180 | 215 | 150 | 210 | 258 | 196 | 16 | 92.5 | 34   | 90  | 20   | 250 | 250 | 150 | M12 |
|                  |             | 45-100       | 50            | 366 | 180 | 215 | 160 | 230 | 291 | 208 | 18 | 92.5 | 40   | 100 | 24   | 250 | 264 | 170 | M12 |
| 3.7kW            |             | 3-10         | 40            | 324 | 180 | 215 | 150 | 210 | 258 | 196 | 16 | 92.5 | 34   | 90  | 20   | 250 | 250 | 150 | M12 |
|                  |             | 15-60        | 50            | 366 | 180 | 215 | 160 | 230 | 291 | 208 | 18 | 92.5 | 40   | 100 | 24   | 250 | 264 | 170 | M12 |

VERTICAL IEC INPUT- TYPE REDUCER

立式 IEC 輸入型減速器

| POWER<br>功 率         | FLANG<br>法 蘭 | RATIO<br>減速比 | SIZE(S)<br>型 番 | A <sub>0</sub> | B   | C   | D <sub>0</sub> | E <sub>0</sub> | F <sub>0</sub> | G <sub>0</sub> | H <sub>0</sub> | I <sub>0</sub> | J <sub>0</sub> | K <sub>0</sub> | L <sub>0</sub> | N   | X <sub>0</sub> | Y <sub>0</sub> | Z   |
|----------------------|--------------|--------------|----------------|----------------|-----|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|----------------|----------------|-----|
| 0.1kW<br><br>0.2kW   | B5-63        | 3-10         | 18             | 150            | 95  | 115 | 145            | 170            | 120            | 3.5            | 9              | 47             | 16             | 40             | 12             | 140 | 120            | 3              | M8  |
|                      |              | 15-90        | 22             | 187            | 95  | 115 | 150            | 186            | 166            | 3.5            | 11             | 47             | 19             | 47.5           | 12             | 140 | 174            | 3.5            | M8  |
|                      |              | 100-200      | 28             | 206            | 95  | 115 | 170            | 231            | 186            | 3.5            | 11             | 47             | 23.5           | 58             | 14             | 140 | 198            | 3              | M8  |
| 0.4kW                | B5-71        | 3-10         | 22             | 194            | 110 | 130 | 170            | 186            | 166            | 4              | 11             | 54             | 19             | 47.5           | 14             | 160 | 174            | 3              | M8  |
|                      |              | 15-90        | 28             | 213            | 110 | 130 | 170            | 231            | 186            | 4              | 11             | 54             | 23.5           | 58             | 14             | 160 | 198            | 3              | M8  |
|                      |              | 100-200      | 32             | 265            | 110 | 130 | 180            | 250            | 221            | 4              | 13             | 54             | 28.5           | 65             | 15             | 160 | 240            | 4.2            | M8  |
| 0.55kW<br><br>0.75kW | B5-80        | 3-25         | 28             | 238            | 130 | 165 | 170            | 231            | 186            | 4              | 11             | 79             | 23.5           | 58             | 14             | 200 | 198            | 3              | M10 |
|                      |              | 30-120       | 32             | 290            | 130 | 165 | 180            | 250            | 221            | 4              | 13             | 79             | 28.5           | 65             | 15             | 200 | 240            | 4.2            | M10 |
|                      |              | 125-200      | 40             | 313            | 130 | 165 | 230            | 310            | 276            | 4              | 16             | 79             | 34             | 73             | 17             | 200 | 290            | 5              | M10 |
| 1.1kW<br>1.5kW       | B5-90        | 3-30         | 32             | 290            | 130 | 165 | 180            | 250            | 221            | 4              | 13             | 79             | 28.5           | 65             | 15             | 200 | 240            | 4.2            | M10 |
|                      |              | 40-100       | 40             | 313            | 130 | 165 | 230            | 310            | 276            | 4              | 16             | 79             | 34             | 73             | 17             | 200 | 290            | 5              | M10 |
| 2.2kW                | B5-112M      | 3-40         | 40             | 327            | 180 | 215 | 230            | 310            | 268            | 4.5            | 16             | 92.5           | 36             | 85             | 21             | 250 | 290            | 5              | M12 |
|                      |              | 45-100       | 50             | 366            | 180 | 215 | 270            | 360            | 300            | 4.5            | 22             | 92.5           | 40             | 89             | 25             | 250 | 323            | 5              | M12 |
| 3-10                 |              | 40           | 327            | 180            | 215 | 230 | 310            | 268            | 4.5            | 16             | 92.5           | 36             | 85             | 21             | 250            | 290 | 5              | M12            |     |
| 3.7kW                |              | 15-60        | 50             | 366            | 180 | 215 | 270            | 360            | 300            | 4.5            | 22             | 92.5           | 40             | 89             | 25             | 250 | 323            | 5              | M12 |

IEC INPUT-TYPE HIGH RATIO REDUCER

IEC輸入型高速比減速器

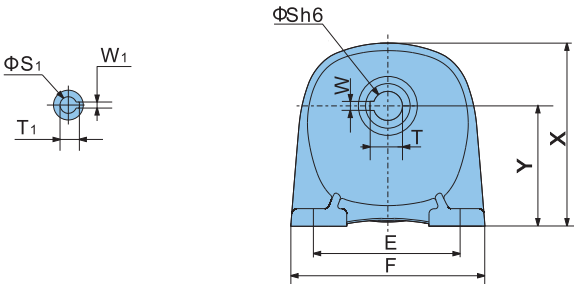
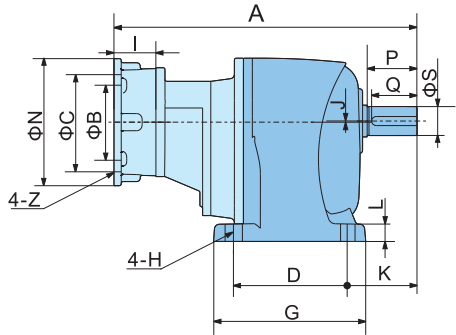


G4L28(8)+M18-1800K-B5-63  
HORIZONTAL 卧式

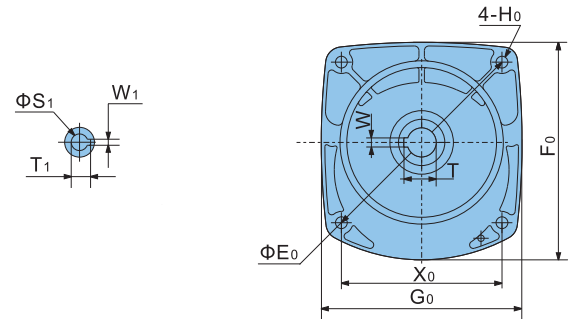
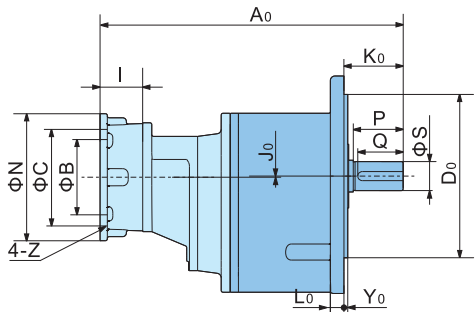


G4V28(8)+M18-1800K-B5-63  
VERTICAL 立式

HORIZONTAL 卧式



VERTICAL 立式



INPUT BORE 輸入孔尺寸

| POWER<br>功率               | FLANGE<br>法蘭規格 | BORE<br>輸入孔    | KEYWAY<br>鍵槽   |                |
|---------------------------|----------------|----------------|----------------|----------------|
|                           |                | S <sub>1</sub> | W <sub>1</sub> | T <sub>1</sub> |
| 0.1kW<br>0.2kW            | B5-63          | Φ11            | 4              | 12.8           |
|                           |                | Φ14            | 5              | 16.3           |
| 0.4kW<br>0.55kW<br>0.75kW | B5-71          | Φ19            | 6              | 21.8           |
|                           |                | Φ24            | 8              | 27.3           |
| 1.1kW<br>1.5kW            | B5-90          | Φ24            | 8              | 27.3           |

OUTPUT SHAFT 輸出軸尺寸

| SIZE(S)<br>型番 | SHAFT<br>輸出軸 |    | KEYWAY<br>鍵槽 |      |    | KEY<br>鍵 |
|---------------|--------------|----|--------------|------|----|----------|
|               | ΦS           | P  | W            | T    | Q  | SPEC     |
| 22            | Φ22          | 40 | 7            | 25   | 35 | 7*7*35   |
| 28            | Φ28          | 45 | 8            | 31.1 | 40 | 8*7*40   |
| 32            | Φ32          | 55 | 10           | 35   | 50 | 10*8*50  |
| 40            | Φ40          | 70 | 10           | 43   | 56 | 10*8*60  |
| 50            | Φ50          | 75 | 14           | 53.5 | 70 | 14*9*70  |

HORIZONTAL HIGH RATIO TYPE 卧式高速比

| POWER<br>功率      | FLANG<br>法蘭 | RATIO<br>減速比 | CODE<br>本體 | SIZE(S)<br>型番 | A   | B   | C   | D   | E   | F   | G   | H  | I  | J   | K   | L  | N   | X   | Y   | Z   |
|------------------|-------------|--------------|------------|---------------|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|----|-----|-----|-----|-----|
| 0.1kW            | B5-63       | 250-1800     | 22+32      | 32            | 334 | 95  | 115 | 130 | 170 | 214 | 168 | 13 | 47 | 1   | 75  | 19 | 140 | 202 | 130 | M10 |
| 0.2kW            | B5-71       | 250-1800     | 28+40      | 40            | 374 | 110 | 130 | 150 | 210 | 258 | 196 | 16 | 54 | 0.5 | 90  | 20 | 160 | 231 | 150 | M10 |
| 0.4kW            |             |              |            |               |     |     |     |     |     |     |     |    |    |     |     |    |     |     |     |     |
| 0.55kW<br>0.75kW | B5-80       | 250-1800     | 28+40      | 40            | 399 | 130 | 165 | 150 | 210 | 258 | 196 | 16 | 54 | 0.5 | 90  | 20 | 160 | 231 | 150 | M10 |
| 1.1kW<br>1.5kW   | B5-90       | 250-1800     | 32+50      | 50            | 462 | 130 | 165 | 160 | 230 | 291 | 208 | 18 | 79 | 1.5 | 100 | 24 | 200 | 264 | 170 | M10 |

VERTICAL HIGH RATIO TYPE 立式高速比

| POWER<br>功率      | FLANG<br>法蘭 | RATIO<br>減速比 | CODE<br>本體 | SIZE(S)<br>型番 | A <sub>0</sub> | B   | C   | D <sub>0</sub> | E <sub>0</sub> | F <sub>0</sub> | G <sub>0</sub> | H <sub>0</sub> | I  | J   | K <sub>0</sub> | L <sub>0</sub> | N   | X <sub>0</sub> | Y <sub>0</sub> | Z   |
|------------------|-------------|--------------|------------|---------------|----------------|-----|-----|----------------|----------------|----------------|----------------|----------------|----|-----|----------------|----------------|-----|----------------|----------------|-----|
| 0.1kW            | B5-63       | 250-1800     | 22+32      | 32            | 334            | 95  | 115 | 180            | 250            | 240            | 221            | 13             | 47 | 1   | 65             | 15             | 140 | 177            | 4.2            | M8  |
| 0.2kW            | B5-71       | 250-1800     | 28+40      | 40            | 374            | 110 | 130 | 230            | 310            | 290            | 276            | 16             | 54 | 0.5 | 73             | 17             | 160 | 219            | 5              | M8  |
| 0.4kW            |             |              |            |               |                |     |     |                |                |                |                |                |    |     |                |                |     |                |                |     |
| 0.55kW<br>0.75kW | B5-80       | 250-1800     | 28+40      | 40            | 399            | 130 | 165 | 230            | 310            | 290            | 276            | 16             | 79 | 0.5 | 73             | 17             | 200 | 219            | 5              | M10 |
| 1.1kW<br>1.5kW   | B5-90       | 250-1800     | 32+50      | 50            | 462            | 130 | 165 | 270            | 360            | 323            | 300            | 22             | 79 | 1.5 | 89             | 25             | 200 | 255            | 5              | M10 |

SHAFT INPUT-TYPE REDUCER  
軸輸入型減速器

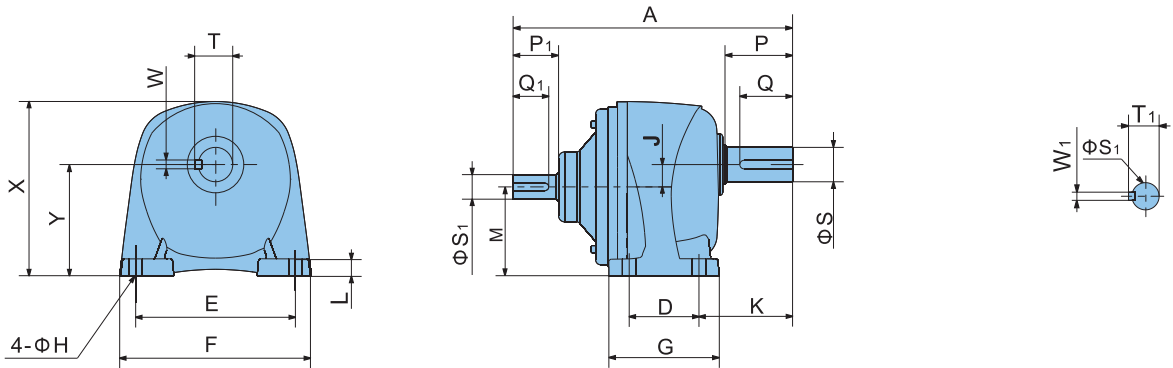


HORIZONTAL 卧式

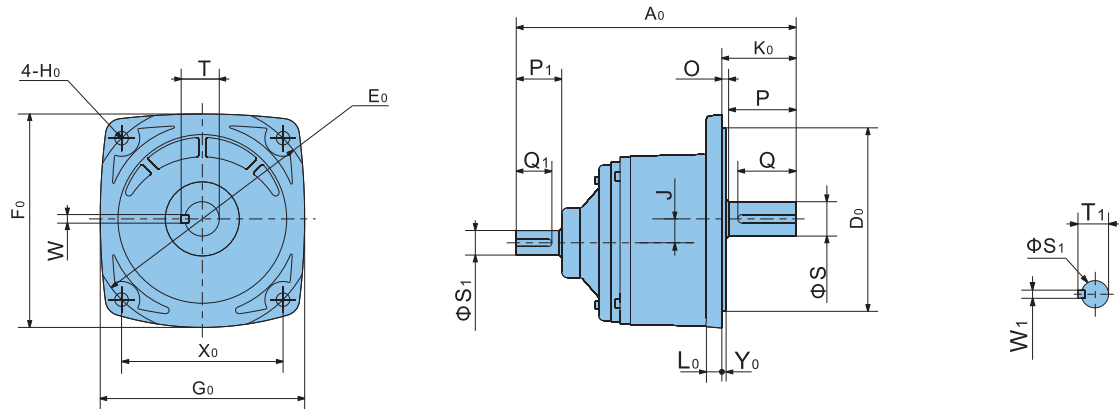


VERTICAL 立式

HORIZONTAL 卧式



VERTICAL 立式



INPUT SHAFT 輸入軸尺寸

| POWER<br>功率      | SHAFT<br>輸入軸   |                | KEYWAY<br>鍵槽   |                |                | KEY<br>鍵 |
|------------------|----------------|----------------|----------------|----------------|----------------|----------|
|                  | S <sub>1</sub> | P <sub>1</sub> | W <sub>1</sub> | T <sub>1</sub> | Q <sub>1</sub> | SPEC     |
| 0.1kW<br>0.2kW   | Φ14            | 23             | 5              | 16.2           | 22             | 5*5*22   |
| 0.4kW            | Φ16            | 28             | 5              | 18.2           | 27             | 5*5*27   |
| 0.55kW<br>0.75kW | Φ19            | 38             | 6              | 21.7           | 35             | 6*6*35   |
| 1.1kW<br>1.5kW   | Φ24            | 48             | 8              | 27.1           | 45             | 8*7*45   |
| 2.2kW<br>3.7kW   | Φ28            | 53             | 8              | 33             | 50             | 8*7*50   |

OUTPUT SHAFT 輸出軸尺寸

| SIZE(S)<br>型番 | SHAFT<br>輸出軸 |    | KEYWAY<br>鍵槽 |      |    | KEY<br>鍵 |
|---------------|--------------|----|--------------|------|----|----------|
|               | ΦS           | P  | W            | T    | Q  | SPEC     |
| 18            | Φ18          | 32 | 5            | 20.5 | 27 | 5*5*27   |
| 22            | Φ22          | 40 | 7            | 25   | 35 | 7*7*35   |
| 28            | Φ28          | 45 | 8            | 31.1 | 40 | 8*7*40   |
| 32            | Φ32          | 55 | 10           | 35   | 50 | 10*8*50  |
| 40            | Φ40          | 70 | 10           | 43   | 60 | 10*8*55  |
| 50            | Φ50          | 75 | 14           | 53.5 | 75 | 14*9*75  |

HORIZONTAL TYPE 臥式

| POWER<br>功率      | RATIO<br>減速比 | SIZE(S)<br>型番 | A   | D   | E   | F   | G   | H  | J    | K   | L    | M     | X   | Y   |
|------------------|--------------|---------------|-----|-----|-----|-----|-----|----|------|-----|------|-------|-----|-----|
| 0.1kW            | 3-60         | 18            | 168 | 40  | 110 | 136 | 64  | 9  | 16.5 | 45  | 11.5 | 68.5  | 133 | 85  |
|                  | 70-200       | 22            | 210 | 65  | 130 | 156 | 90  | 11 | 19   | 60  | 15   | 71    | 142 | 90  |
| 0.2kW            | 3-10         | 18            | 168 | 40  | 110 | 136 | 64  | 9  | 16.5 | 45  | 11.5 | 68.5  | 133 | 85  |
|                  | 15-90        | 22            | 210 | 65  | 130 | 156 | 90  | 11 | 19   | 60  | 15   | 71    | 142 | 90  |
|                  | 100-200      | 28            | 247 | 90  | 140 | 176 | 126 | 11 | 23.5 | 66  | 16   | 86.5  | 169 | 110 |
| 0.4kW            | 3-10         | 22            | 210 | 65  | 130 | 156 | 90  | 11 | 19   | 60  | 15   | 71    | 142 | 90  |
|                  | 15-90        | 28            | 247 | 90  | 140 | 176 | 126 | 11 | 23.5 | 66  | 16   | 86.5  | 169 | 110 |
|                  | 100-200      | 32            | 312 | 130 | 170 | 214 | 168 | 13 | 28.5 | 70  | 19   | 101.5 | 202 | 130 |
| 0.55kW<br>0.75kW | 3-25         | 28            | 247 | 90  | 140 | 176 | 126 | 11 | 23.5 | 66  | 16   | 86.5  | 169 | 110 |
|                  | 30-120       | 32            | 312 | 130 | 170 | 214 | 168 | 13 | 28.5 | 70  | 19   | 101.5 | 202 | 130 |
|                  | 140-200      | 40            | 356 | 150 | 210 | 258 | 196 | 16 | 34   | 90  | 20   | 116   | 231 | 150 |
| 1.1kW<br>1.5kW   | 3-30         | 32            | 312 | 130 | 170 | 214 | 168 | 13 | 28.5 | 70  | 19   | 101.5 | 202 | 130 |
|                  | 40-100       | 40            | 356 | 150 | 210 | 258 | 196 | 16 | 34   | 90  | 20   | 116   | 231 | 150 |
| 2.2kW            | 3-40         | 40            | 356 | 150 | 210 | 258 | 196 | 16 | 34   | 90  | 20   | 116   | 231 | 150 |
|                  | 45-100       | 50            | 399 | 160 | 230 | 291 | 208 | 18 | 40   | 120 | 24   | 130   | 264 | 170 |
| 3.7kW            | 3-40         | 40            | 356 | 150 | 210 | 258 | 196 | 16 | 34   | 100 | 20   | 116   | 231 | 150 |
|                  | 45-100       | 50            | 399 | 160 | 230 | 291 | 208 | 18 | 40   | 100 | 24   | 130   | 264 | 170 |

VERTICAL TYPE 立式

| POWER<br>功率      | RATIO<br>減速比 | SIZE(S)<br>型番 | A <sub>0</sub> | D <sub>0</sub> | E <sub>0</sub> | F <sub>0</sub> | G <sub>0</sub> | H <sub>0</sub> | J    | K <sub>0</sub> | L <sub>0</sub> | X <sub>0</sub> | Y <sub>0</sub> |
|------------------|--------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|------|----------------|----------------|----------------|----------------|
| 0.1kW            | 3-60         | 18            | 168            | 145            | 170            | 158            | 178            | 9              | 16.5 | 39.5           | 9              | 120            | 3              |
|                  | 70-200       | 22            | 209            | 150            | 186            | 174            | 166            | 11             | 19   | 47.5           | 12             | 131.5          | 3              |
| 0.2kW            | 3-10         | 18            | 168            | 145            | 170            | 158            | 178            | 9              | 16.5 | 39.5           | 9              | 120            | 3              |
|                  | 15-90        | 22            | 209            | 150            | 186            | 174            | 166            | 11             | 19   | 47.5           | 12             | 131.5          | 3              |
|                  | 100-200      | 28            | 247            | 170            | 215            | 198            | 194            | 11             | 23.5 | 57.8           | 14             | 152            | 3              |
| 0.4kW            | 3-10         | 22            | 209            | 150            | 186            | 174            | 166            | 11             | 19   | 47.5           | 12             | 131.5          | 3              |
|                  | 15-90        | 28            | 247            | 170            | 215            | 198            | 194            | 11             | 23.5 | 57.8           | 14             | 152            | 3              |
|                  | 100-200      | 32            | 312            | 180            | 250            | 240            | 221            | 13             | 28.5 | 65             | 15             | 177            | 4.2            |
| 0.55kW<br>0.75kW | 3-25         | 28            | 247            | 170            | 215            | 198            | 194            | 11             | 23.5 | 57.8           | 14             | 152            | 3              |
|                  | 30-120       | 32            | 312            | 180            | 250            | 240            | 221            | 13             | 28.5 | 65             | 15             | 177            | 4.2            |
|                  | 140-200      | 40            | 357            | 230            | 300            | 289            | 276            | 16             | 34   | 73             | 17             | 219            | 5              |
| 1.1kW<br>1.5kW   | 3-30         | 32            | 312            | 180            | 250            | 240            | 221            | 13             | 28.5 | 65             | 15             | 177            | 4.2            |
|                  | 40-100       | 40            | 357            | 230            | 300            | 289            | 276            | 16             | 34   | 73             | 17             | 219            | 5              |
| 2.2kW            | 3-40         | 40            | 357            | 230            | 300            | 289            | 276            | 16             | 34   | 73             | 17             | 219            | 5              |
|                  | 45-100       | 50            | 399            | 270            | 360            | 323            | 300            | 22             | 40   | 88             | 25             | 255            | 5              |
| 3.7kW            | 3-40         | 40            | 357            | 230            | 300            | 289            | 276            | 16             | 34   | 73             | 17             | 219            | 5              |
|                  | 45-100       | 50            | 399            | 270            | 360            | 323            | 300            | 22             | 40   | 88             | 25             | 255            | 5              |

SHAFT INPUT-TYPE HIGH RATIO REDUCER  
軸輸入型高速比減速器

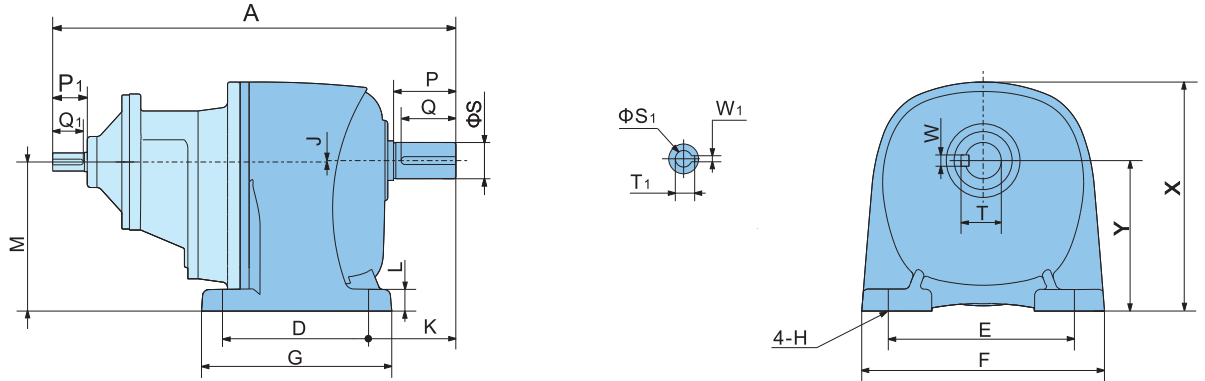


G4L32(10)+M22-1800K+200W  
HORIZONTAL 臥式

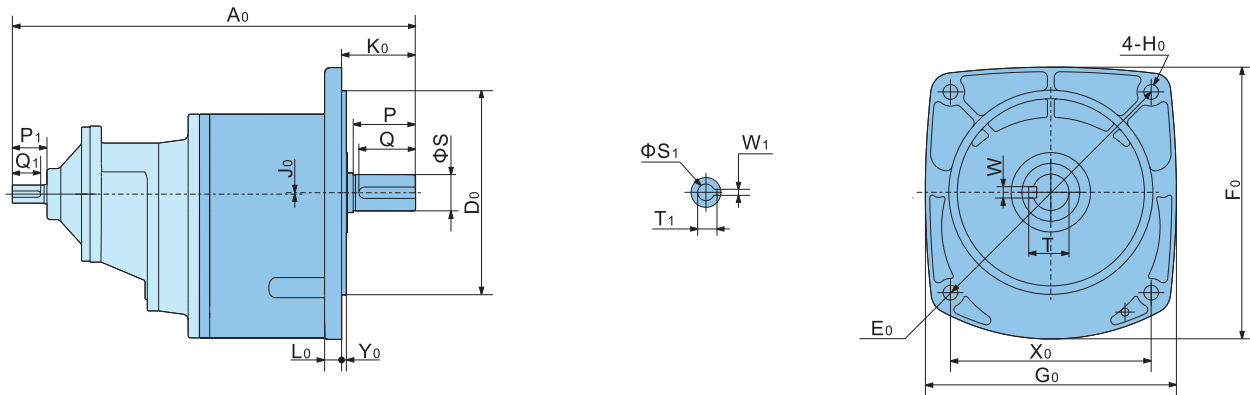


G4V32(10)+M22-1800K+200W  
VERTICAL 立式

HORIZONTAL 臥式



VERTICAL 立式



INPUT SHAFT 輸入軸尺寸

| POWER<br>功率      | SHAFT<br>輸入軸   |                | KEYWAY<br>鍵槽   |                |                | KEY<br>鍵<br>SPEC |
|------------------|----------------|----------------|----------------|----------------|----------------|------------------|
|                  | S <sub>1</sub> | P <sub>1</sub> | W <sub>1</sub> | T <sub>1</sub> | Q <sub>1</sub> |                  |
| 0.2kW<br>0.4kW   | Φ16            | 28             | 5              | 18.2           | 27             | 5*5*27           |
| 0.2kW<br>0.4kW   | Φ19            | 38             | 6              | 21.7           | 35             | 6*6*35           |
| 0.55kW<br>0.75kW | Φ24            | 48             | 8              | 27.1           | 45             | 8*7*45           |

OUTPUT SHAFT 輸出軸尺寸

| SIZE(S)<br>型番 | SHAFT<br>輸出軸 |    | KEYWAY<br>鍵槽 |      |    | KEY<br>鍵<br>SPEC |
|---------------|--------------|----|--------------|------|----|------------------|
|               | ΦS           | P  | W            | T    | Q  |                  |
| 32            | Φ32          | 55 | 10           | 35   | 50 | 10*8*50          |
| 40            | Φ40          | 70 | 10           | 43   | 56 | 10*8*56          |
| 50            | Φ50          | 75 | 14           | 53.5 | 70 | 14*9*70          |



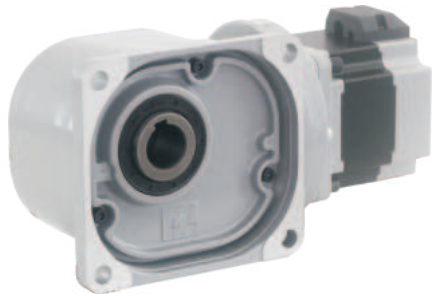
HORIZONTAL HIGH RATIO TYPE 臥式高速比

| POWER<br>功率      | RATIO<br>減速比 | CODE<br>本體 | SIZE(S)<br>型番 | A   | D   | E   | F   | G   | H  | J   | K   | L  | M     | X   | Y   |
|------------------|--------------|------------|---------------|-----|-----|-----|-----|-----|----|-----|-----|----|-------|-----|-----|
| 0.2kW            | 250-1800     | 22+32      | 32            | 355 | 130 | 170 | 214 | 168 | 13 | 1   | 75  | 19 | 129   | 202 | 130 |
| 0.4kW            | 250-1800     | 28+40      | 40            | 408 | 150 | 210 | 258 | 196 | 16 | 0   | 90  | 20 | 150   | 231 | 150 |
| 0.55kW<br>0.75kW | 250-1800     | 32+50      | 50            | 483 | 160 | 230 | 291 | 208 | 18 | 1.5 | 100 | 24 | 168.5 | 264 | 170 |

VERTICAL HIGH RATIO TYPE 立式高速比

| POWER<br>功率      | RATIO<br>減速比 | CODE<br>本體 | SIZE(S)<br>型番 | A <sub>0</sub> | D <sub>0</sub> | E <sub>0</sub> | F <sub>0</sub> | G <sub>0</sub> | H <sub>0</sub> | J   | K <sub>0</sub> | L <sub>0</sub> | X <sub>0</sub> | Y <sub>0</sub> |
|------------------|--------------|------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|
| 0.2kW            | 250-1800     | 22+32      | 32            | 355            | 180            | 250            | 240            | 221            | 13             | 1   | 65             | 15             | 177            | 4.2            |
| 0.4kW            | 250-1800     | 28+40      | 40            | 408            | 230            | 310            | 290            | 276            | 16             | 0   | 73             | 17             | 219            | 5              |
| 0.55kW<br>0.75kW | 250-1800     | 32+50      | 50            | 483            | 270            | 360            | 323            | 300            | 22             | 1.5 | 89             | 25             | 255            | 5              |

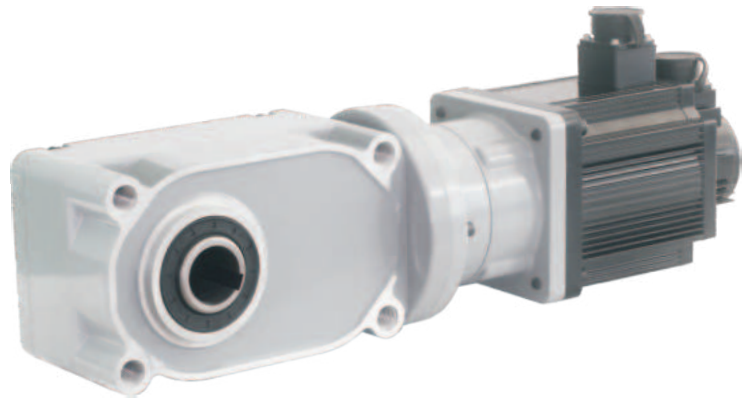
► HIGH EFFICIENCY MOTOR AND CUSTOMIZATION 高效電機及定制



F series reducer  
+ Brushless motor  
F系列減速機配無刷電機



G4 series reducer  
+ AC servo motor  
G4系列減速機配伺服電機



F3 series reducer  
+ AC servo motor  
F3系列減速機配伺服電機

F3/F/H2/G3/4 Series reducer can be adapted to brushless motor , servo motor and other multiple types of motors according to customer requirements, with bueshless drive ,servo driver can be more convenient to control the motor.

F3/F/H2/G3/4系列減速機可按客戶要求，適配無刷電機，伺服電機等多種類型電機。搭配無刷驅動器，伺服驅動器，可更加方便的控制電機。

TABLE OF VOLTAGE BY COUNTRY 各國電壓表

| COUNTRY<br>國名        | HZ<br>頻率 | 1-PHASE<br>單相  | 3-PHASE<br>三相 | COUNTRY<br>國名         | HZ<br>頻率 | 1-PHASE<br>單相 | 3-PHASE<br>三相      |
|----------------------|----------|----------------|---------------|-----------------------|----------|---------------|--------------------|
| Argentina<br>阿根廷     | 50       | 220            | 220/380       | Japan<br>日本           | 50/60    | 100/200       | 200/400            |
| Australia<br>澳洲      | 50       | 240            | 240/415       | Kuwait<br>科威特         | 50       | 100/200       | 200                |
| Austria<br>奧地利       | 50       | 230            | 400           | Lebanon<br>黎巴嫩        | 50       | 110/200       | 220/380            |
| Bangladesh<br>孟加拉    | 50       | 230            | 400           | Malaysia<br>馬來西亞      | 50       | 240           | 415                |
| Belgium<br>比利時       | 50       | 230            | 400           | Netherlands<br>荷蘭     | 50       | 230           | 400                |
| Brazil<br>巴西         | 60       | 110/220<br>127 | 220/380       | New Zealand<br>新西蘭    | 50       | 230           | 230/415            |
| Burma<br>緬甸          | 50       | 230            | 230/440       | Pakistan<br>巴基斯坦      | 50       | 230           | 220/380<br>230/400 |
| Cambodia<br>高棉       | 50       | 120            | 220/380       | Saudi-arabia<br>沙特阿拉伯 | 50<br>60 | 127/220       | 220/380<br>230/400 |
| Chile<br>智利          | 50       | 220            | 220/380       | Syria<br>敘利亞          | 50       | 115/200       | 220/380            |
| China<br>中國          | 50       | 220            | 220/380       | Singapore<br>新加坡      | 50       | 230           | 400                |
| Czech Republic<br>捷克 | 50       | 120/220        | 220/380       | South-africa<br>南非    | 50       | 220/230       | 220/380<br>230/400 |
| Denmark<br>丹麥        | 50       | 230            | 400           | Spain<br>西班牙          | 50       | 127/230       | 220/400            |
| Egypt<br>埃及          | 50       | 220            | 220/380       | Switzerland<br>瑞士     | 50       | 230           | 400                |
| Finland<br>芬蘭        | 50       | 220            | 220/380       | Thailand<br>泰國        | 50       | 220           | 220/380            |
| France<br>法國         | 50       | 115/127/220    | 220/380       | Turkey<br>土耳其         | 50       | 127/220/230   | 220/380            |
| Germany<br>德國        | 50       | 110/220        | 220/380       | U.K.<br>英國            | 50       | 230           | 400                |
| Greece<br>希臘         | 50       | 230            | 400           | Viet-Nam<br>越南        | 50       | 220           | 380                |
| Norway<br>挪威         | 50       | 220/230        | 380           | Canada<br>加拿大         | 60       | 120/347       | 208/240/600        |
| Hungary<br>匈牙利       | 50       | 220            | 380           | Colombia<br>哥倫比亞      | 60       | 110/220       | 220/380            |
| Iceland<br>冰島        | 50       | 220            | 220/380       | Cuba<br>古巴            | 60       | 115/120       | 240                |
| India<br>印度          | 50       | 240            | 240/415       | Ecuador<br>厄瓜多爾       | 60       | 120/127       | 208/220            |
| Indonesia<br>印尼      | 50       | 220            | 380           | Korea<br>韓國           | 60       | 110/200       | 220/380            |
| Iraq<br>伊拉克          | 50       | 220            | 220/380       | Peru<br>秘魯            | 60       | 110/220       | 220                |
| Israel<br>以色列        | 50       | 230            | 230/400       | Philippines<br>菲律賓    | 60       | 110/220       | 220/440            |
| Italy<br>意大利         | 50       | 230            | 400           | U.S.A.<br>美國          | 60       | 115           | 230                |

