

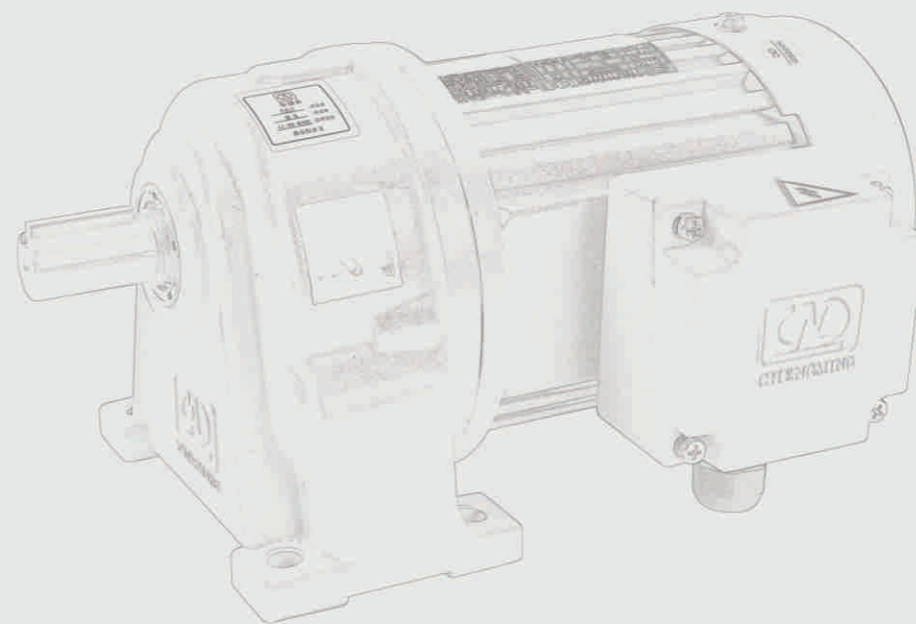
匠心 **正名精工** 传承

INGENUITY CHENGMING

SEIKO INHERITANCE

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2019-01版



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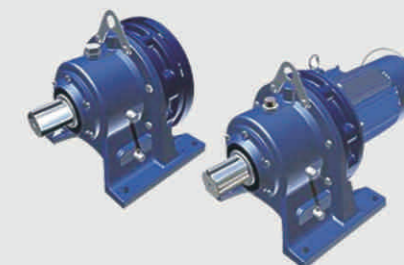
中型齒輪減速機



行星減速機



擺綫減速機



硬齒面減速機



蝸輪蝸杆RV減速機



微型齒輪減速電機



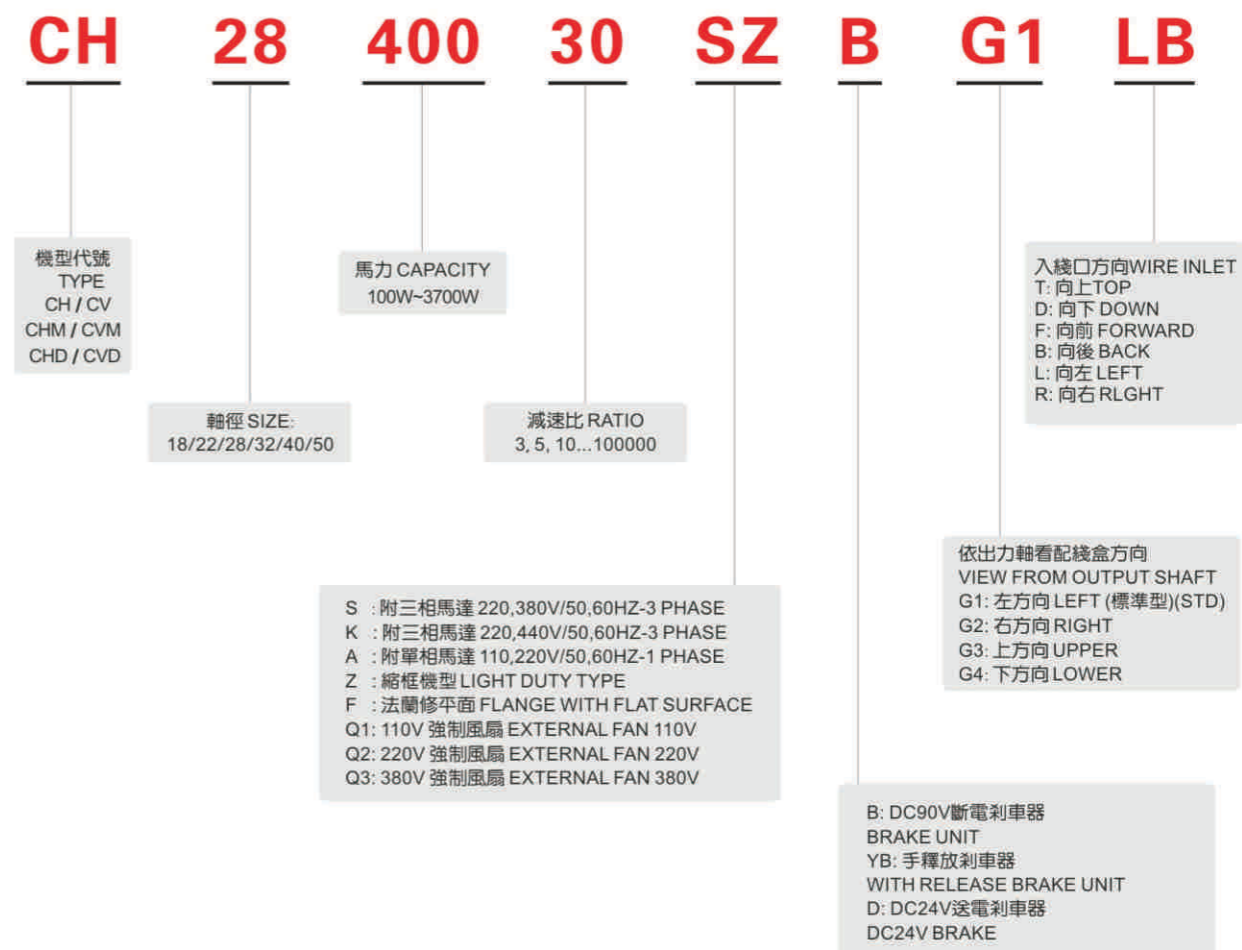
諧波減速機



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型號說明 Description Of Model

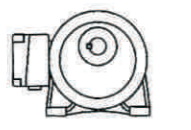
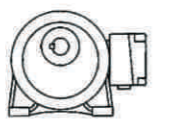
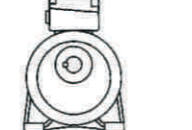

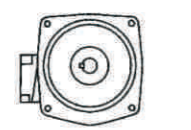
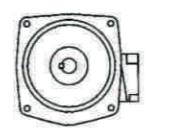
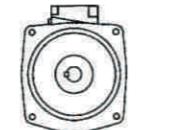
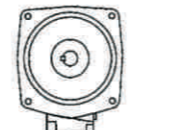


產品說明 Product Picture



















產品型號


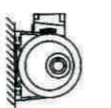
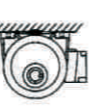
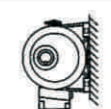

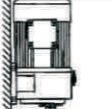
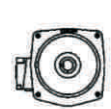

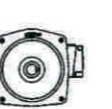


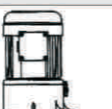
配綫盒方向選定 Terminal Box Direction

| 型號 TYPE | G1-左方向 LEFT SIDE | G2-右方向 RIGHT SIDE | G3-上方向 UPPER SIDE | G4-下方向 LOWER SIDE |
|-----------------|---|---|--|---|
| CH 型 CH TYPE |  |  |  |  |
| | G1 | G2 | G3 | G4 |
| CV 型 CV TYPE |  |  |  |  |
| | G1 | G2 | G3 | G4 |

入綫口方向 Wire Inlet Direction

| | | | | | | | |
|---|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |  |
| LD | LT | RD | RT | TL | TR | DL | DR |
|  |  |  |  |  |  |  |  |
| LF | LB | RF | RB | TF | TB | DF | DB |

減速機與透氣塞安裝位置示意圖 Reducer and Ventilation Installation

| | | | |
|--|---|---|---|
| CH 機型 安裝範例 CH INSTALLATION EXAMPLES |  |  |  |
| | H0標準STANDARD(CPHG正立CPHG STAND) | H3 (左側 LEFT SIDE) | H6 (倒裝 INVERT) |
| |  |  |  |
| | H9 (右側 RIGHT SIDE) | HU (軸向上 SHAFT UP) | HD (軸向下 SHAFT DOWN) |
| CV 機型 安裝範例 CV INSTALLATION EXAMPLES |  |  |  |
| | V0標準STANDARD(CPHG正立CPHG STAND) | V3(CPHG順轉90°CPHE CLOCKWISE90°) | V6(CPHG順轉180°CPHG CLOCKWISE180°) |
| |  |  |  |
| | V9(CPHG逆轉90° CPHG LEFT TURN90°) | VU (軸向上 SHAFT UP) | VD (軸向下 SHAFT DOWN) |

A) 本體 Housing

- * 1號, 2號及3號本體, 其出力軸直徑介於 $\Phi 18-\Phi 28$ 之間時, 減速機本體皆採用鋁合金材質ADC-12 Aluminum housing for output shaft diameter between $\Phi 18-\Phi 28$, Housing material: ADC-12 aluminum alloy
- * 4號, 5號及6號本體, 其出力軸直徑介於 $\Phi 32-\Phi 50$ 之間時, 減速機本體皆採用鑄鐵材質FC-20 Cast iron housing for output shaft diameter between $\Phi 32-\Phi 50$, Housing material: FC-20 cast iron

B) 1/2/3段齒輪 1st, 2nd & 3rd Stage Gear

- * 齒輪經精密滾齒加工, 齒輪加工精度等級為2~3級 Gear machining by precision hobbing machine, gear precision level between grade 2-3
- * 齒輪材質為S45C, 調質至HRC21再經高周波熱處理至HRC45°~48° Gear with S45C material, by normalize & normalize & induction hardened heat treatment to hardness HRC45°~48°

C) 二/三段齒軸 2nd & 3rd Stage Pinion

- * 齒輪經 SKIVING 精密滾齒加工, 齒輪精度等級為1~2級 Gear pinion machining by skiving cutting, pinion precision level between grade 1-2
- * 齒軸材質為 SCM21, 調質至 HRC21再經滲碳熱處理至HRC58°~61° Pinion with SCM21 material, by normalize & carbonize hardened heat treatment to hardness HRC58°~61°

D) 馬達齒輪 Motor Shaft

- * 馬達齒軸經 SKIVING 精密滾齒加工, 齒軸精度等級為1~2級 Motor shaft gear pinion machining by skiving cutting, pinion precision level between grade 1-2
- * 材質為 SCM4, 調質至 HRC21再經高周波熱處理至HRC50°~53° Pinion with SCM4 material, by normalize & inducton hardened heat treatment to hardness HRC50°~53°

E) 軸承 Bearing

- * 馬達部分採用進口品牌精密軸承, 以確保長期運轉壽命 Motor parts adopt imported brand precision bearings to ensure long service life

F) 油封 Oil Seal

- * 採用進口品牌油封, 馬達軸側以耐高溫VITON油封為主, 可確實防止潤滑油回漏馬達內部 Imported brand oil seal is used. The motor shaft side is mainly made of high temperature resistant VITON oil seal, which can really prevent the lubricating oil from returning to the inside of the motor.

G) 接綫盒 Terminal Box

- * 採用鋁合金專用IP55鋁制接綫盒, 防水性及防塵性佳 Terminal box with aluminum alloy material, special design for IP55 level and totally avoid water and dust into casing

H) 三相/單相馬達本體 Three/Single Phase Motor Housing

- * 三相馬達: 採標準全密閉型專用鋁殼馬達配IP55鋁制接綫盒, 具較佳防水及防塵性, 易散熱及運轉效率高 Three phase motor with totally enclosed fan cooled type, IP55 aluminum terminal box totally avoid water and dust into housing
- * 單相馬達: 採標準半密閉型專用鐵殼馬達配鐵制接綫盒, 較易散熱, 運轉效率高。(本公司亦可提供全密閉型鐵殼馬達及鋁合金型單相馬達) Single phase motor with semi-enclosed fan cooled steel plate type, high-efficiency running, (also available for totally enclosed steel plate housing & aluminum type housing)

I) 馬達後蓋 Rear Motor Cover

- * 可採用防水型馬達後蓋, 於軸心處加置油封, 可防止灰塵及外部水氣流入馬達 Rear motor cover assembly with oil seal, it can prevent dust and water get into motor

馬達規範 Motor Specification

標準馬達規範表 Standard Motor Specification

| | | |
|---------------------|---|--|
| 項目 ITEM | 三相交流馬達 3-PHASE MOTOR | |
| 保護等級 PROTECTION | 全密閉外扇形 IP55 TOTALLY ENCLOSED FAN COOLED TYPE | |
| 啟動方式 STARTING | 全壓啟動 DIRECT START | |
| 定格 TIME RATING | 連續運轉 CONTINUOUS RUNNING | |
| 絕緣等級 INSULATION | F-絕緣 F-CLASS | |
| 適合環境 ENVIRONMENT | 溫度: -10°C TO +40°C (TEMPERATURE BETWEEN -10°C TO +40°C) 濕度: 90%以下 (HUMIDITY LESS THAN 90%) | |
| 適用電壓 VOLTAGE | 50HZ | 220V,230V,240V,380V 400V,415V,440V |
| | 60HZ | 220V,240V,380V,415V 440V,460V,480V,600V |
| 適用極數 POLE | 2P,4P,6P,8P | |
| 輸出轉速(4P) FULL SPEED | 50HZ | 1340-1445RPM |
| | 60HZ | 1610-1740RPM |
| 依據標準 STANDARD | 國際/國家標準 IEC-60034,CNS-10919 GB755 | |
| 海拔 SEA LEVEL | 1000公尺以下 UNDER 1000 M | |
| 接線盒 TERMINAL BOX | 採用IP55級防水型鋁合金接線盒 WITH IP-55 CLASS WATER-PROOF ALUMINUM TERMINAL BOX | |

三相電壓全負載電流值 3-Phase/4-Poles Full Load Ampere

| 輸出功率 kw | 50HZ-4P | | | | | 60HZ-4P | | | | |
|---------|---------|------|------|------|------|---------|------|------|------|------|
| | 220V | 380V | 415V | 440V | RPM | 220V | 380V | 440V | 460V | RPM |
| 0.1kw | 0.60 | 0.04 | 0.32 | 0.30 | 1410 | 0.6 | 0.40 | 0.30 | 0.29 | 1720 |
| 0.2kw | 1.15 | 0.67 | 0.70 | 0.58 | 1410 | 1.1 | 0.63 | 0.55 | 0.52 | 1720 |
| 0.4kw | 2.14 | 1.24 | 1.13 | 1.07 | 1420 | 1.9 | 1.10 | 0.95 | 0.91 | 1730 |
| 0.75kw | 3.67 | 2.13 | 1.94 | 1.84 | 1420 | 3.4 | 1.96 | 1.70 | 1.63 | 1730 |
| 1.5kw | 6.59 | 3.82 | 3.49 | 3.30 | 1430 | 6.1 | 3.53 | 3.05 | 2.92 | 1740 |
| 2.2kw | 8.94 | 5.18 | 4.74 | 4.47 | 1430 | 8.7 | 5.04 | 4.35 | 4.16 | 1725 |
| 3.7kw | 13.85 | 8.03 | 7.34 | 6.93 | 1430 | 13.5 | 7.82 | 6.75 | 6.46 | 1745 |

輸出扭矩表 Output Torque

標準型 Normal Duty Type

KG-M

| 速度比 RATIO | 輸出轉速 OUTPUT R.P.M. | | 輸出扭矩表 OUTPUT TORQUE | | | | | | | | | | | | | | | |
|-----------|--------------------|-----|---------------------|------|-------|------|-------|------|--------|------|-------|------|-------|------|-------|-------|--|--|
| | | | 0.1KW | | 0.2KW | | 0.4KW | | 0.75KW | | 1.5KW | | 2.2KW | | 3.7KW | | | |
| | HZ | | | | | | | | | | | | | | | | | |
| | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | | |
| 3 | 500 | 600 | 0.19 | 0.16 | 0.37 | 0.31 | 0.70 | 0.60 | 1.30 | 1.10 | 2.60 | 2.20 | 3.80 | 3.20 | 6.00 | 5.50 | | |
| 5 | 300 | 360 | 0.31 | 0.26 | 0.62 | 0.52 | 1.20 | 1.00 | 2.20 | 1.90 | 4.50 | 3.80 | 6.72 | 5.60 | 11.0 | 10.0 | | |
| 10 | 150 | 180 | 0.62 | 0.52 | 1.24 | 1.04 | 2.40 | 2.00 | 4.50 | 3.80 | 9.10 | 7.60 | 13.7 | 11.2 | 22.0 | 20.0 | | |
| 15 | 100 | 120 | 0.91 | 0.76 | 1.80 | 1.50 | 3.60 | 3.00 | 6.80 | 5.70 | 13.5 | 11.3 | 20.1 | 16.8 | 32.6 | 29.8 | | |
| 20 | 75 | 90 | 1.20 | 1.00 | 2.40 | 2.00 | 4.80 | 4.00 | 9.00 | 7.50 | 18.1 | 15.1 | 26.8 | 22.4 | 43.6 | 36.0 | | |
| 25 | 60 | 72 | 1.40 | 1.20 | 3.00 | 2.50 | 6.00 | 5.00 | 11.2 | 9.40 | 22.6 | 18.9 | 33.6 | 28.0 | 53.9 | 49.53 | | |
| 30 | 50 | 60 | 1.80 | 1.50 | 3.60 | 3.00 | 7.20 | 6.00 | 13.5 | 11.3 | 27.1 | 22.6 | 40.3 | 33.6 | 64.7 | 58.8 | | |
| 40 | 37 | 45 | 2.20 | 1.90 | 4.60 | 3.90 | 9.30 | 7.80 | 17.5 | 14.6 | 34.9 | 29.1 | 52.0 | 43.4 | 86.3 | 78.4 | | |
| 45 | 33 | 40 | 2.70 | 2.20 | 5.40 | 4.40 | 10.9 | 9.10 | 20.6 | 17.0 | 41.1 | 34.0 | 59.8 | 49.6 | 98.5 | 81.7 | | |
| 50 | 30 | 36 | 2.80 | 2.40 | 5.70 | 4.80 | 11.6 | 9.70 | 21.9 | 18.3 | 43.6 | 36.4 | 65.1 | 54.3 | 107 | 97.0 | | |
| 60 | 25 | 30 | 3.40 | 2.90 | 6.90 | 5.80 | 18.4 | 11.6 | 26.2 | 21.9 | 52.4 | 43.7 | 78.1 | 65.1 | 127 | 115 | | |
| 70 | 21 | 25 | 4.30 | 3.60 | 8.00 | 6.80 | 20.7 | 13.5 | 31.5 | 26.3 | 62.4 | 52.0 | 92.5 | 77.1 | | | | |
| 80 | 19 | 23 | 4.80 | 4.00 | 9.20 | 7.70 | 23.0 | 15.4 | 35.5 | 29.6 | 70.8 | 59.0 | 105 | 87.5 | | | | |
| 90 | 17 | 20 | 5.20 | 4.40 | 10.3 | 8.60 | 27.7 | 17.3 | 39.3 | 32.8 | 77.1 | 64.3 | 113 | 94.3 | | | | |
| 110 | 15 | 18 | 5.80 | 4.90 | 11.5 | 9.60 | 32.0 | 19.2 | 43.2 | 36.0 | 83.7 | 69.8 | 126 | 105 | | | | |
| 120 | 12 | 15 | 6.90 | 5.80 | 13.8 | 11.5 | 32.0 | 23.1 | 51.8 | 43.2 | 101 | 83.7 | | | | | | |
| 140 | 11 | 13 | 8.00 | 6.70 | 16.0 | 13.4 | 36.0 | 26.7 | 59.0 | 49.8 | 116 | 96.8 | | | | | | |
| 160 | 9 | 11 | 9.10 | 7.60 | 18.3 | 15.3 | 40.8 | 30.3 | 68.0 | 56.7 | 132 | 110 | | | | | | |
| 180 | 8 | 10 | 10.3 | 8.60 | 20.7 | 17.3 | 43.2 | 34.0 | 76.8 | 64.0 | 148 | 123 | | | | | | |
| 200 | 7 | 9 | 11.6 | 9.70 | 22.9 | 19.1 | 43.2 | 36.0 | 82.8 | 69.0 | | | | | | | | |

出力軸懸垂荷重 Overhung Load

KG-M

| 速度比 RATIO | 輸出轉速 OUTPUT R.P.M. | | 輸出扭矩表 OUTPUT TORQUE | | | | | | | | | | | | | |
|--------------|--------------------------|-----|---------------------|-----|-------|-----|-------|-----|--------|------|-------|-----|-------|------|-------|------|
| | | | 0.1KW | | 0.2KW | | 0.4KW | | 0.75KW | | 1.5KW | | 2.2KW | | 3.7KW | |
| | HZ | | | | | | | | | | | | | | | |
| | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 |
| 3 | 500 | 600 | 30 | 25 | 30 | 25 | 54 | 45 | 60 | 50 | 145 | 130 | 165 | 150 | 200 | 180 |
| 5 | 300 | 360 | 36 | 30 | 36 | 30 | 78 | 70 | 85 | 75 | 165 | 150 | 210 | 180 | 270 | 225 |
| 10 | 150 | 180 | 70 | 60 | 70 | 60 | 150 | 130 | 180 | 150 | 280 | 250 | 430 | 360 | 570 | 550 |
| 15 | 100 | 120 | 110 | 90 | 110 | 100 | 175 | 160 | 165 | 160 | 355 | 348 | 490 | 450 | 780 | 750 |
| 20 | 75 | 90 | 150 | 125 | 135 | 125 | 190 | 170 | 175 | 170 | 396 | 365 | 540 | 500 | 850 | 830 |
| 25 | 60 | 72 | 155 | 140 | 150 | 140 | 210 | 180 | 185 | 180 | 450 | 430 | 650 | 630 | 1100 | 1050 |
| 30 | 50 | 60 | 160 | 150 | 150 | 140 | 235 | 220 | 415 | 400 | 480 | 450 | 690 | 650 | 1200 | 1100 |
| 40 | 38 | 45 | 160 | 160 | 170 | 165 | 270 | 260 | 430 | 420 | 580 | 550 | 710 | 670 | 1280 | 1200 |
| 45 | 33 | 40 | 170 | 170 | 180 | 180 | 335 | 328 | 440 | 430 | 590 | 570 | 820 | 780 | 1300 | 1250 |
| 50 | 30 | 36 | 170 | 170 | 180 | 180 | 350 | 335 | 450 | 440 | 600 | 580 | 850 | 820 | 1400 | 1350 |
| 60 | 25 | 30 | 180 | 180 | 180 | 180 | 350 | 350 | 450 | 450 | 630 | 610 | 900 | 900 | 1400 | 1400 |
| 70 | 21 | 25 | 180 | 180 | 180 | 180 | 350 | 350 | 460 | 460 | 670 | 650 | 1100 | 1100 | | |
| 80 | 18 | 22 | 180 | 180 | 180 | 180 | 350 | 350 | 460 | 460 | 680 | 680 | 1100 | 1100 | | |
| 90 | 16 | 20 | 180 | 180 | 180 | 180 | 350 | 350 | 500 | 500 | 850 | 850 | 1200 | 1200 | | |
| 110 | 15 | 18 | 200 | 200 | 250 | 250 | 380 | 380 | 590 | 590 | 900 | 900 | 1200 | 1200 | | |
| 120 | 12 | 15 | 200 | 200 | 320 | 320 | 390 | 390 | 640 | 640 | 920 | 920 | | | | |
| 140 | 11 | 13 | 200 | 200 | 320 | 320 | 400 | 400 | 679 | 679 | 920 | 920 | | | | |
| 150 | 10 | 12 | 220 | 220 | 330 | 330 | 420 | 420 | 679 | 679 | 950 | 950 | | | | |
| 160 | 9 | 11 | 220 | 220 | 330 | 330 | 420 | 420 | 700 | 700 | 950 | 950 | | | | |
| 180 | 8 | 10 | 240 | 240 | 350 | 350 | 430 | 430 | 720 | 720 | 980 | 980 | | | | |
| 200 | 7 | 9 | 240 | 240 | 350 | 350 | 430 | 430 | 720 | 720 | | | | | | |
| 1/250~1/1800 | | | 300 | 300 | 480 | 480 | 720 | 720 | 1400 | 1400 | | | | | | |

技術參數

公稱及實際速比 Normal Ratio & Actual Ratio

標準型 Normal Duty Type

RPM

| 公稱速比 NORMAL RATIO | 低段實際減速比 ACTUAL RATIO | | | | | | |
|----------------------|----------------------|-------|-------|--------|-------|-------|-------|
| | 0.1kw | 0.2kw | 0.4kw | 0.75kw | 1.5kw | 2.2kw | 3.7kw |
| 3 | 3 | 3 | 3.1 | 3.1 | 3.2 | 3 | 3 |
| 5 | 5 | 5 | 5.2 | 5 | 5.1 | 5.1 | 5.1 |
| 10 | 10.3 | 10.3 | 10.4 | 10.6 | 10.3 | 10.7 | 10.7 |
| 15 | 15 | 15 | 15.5 | 17.5 | 15.2 | 14.9 | 14.9 |
| 20 | 21 | 21 | 20.4 | 21 | 20.1 | 20.6 | 20.6 |
| 25 | 26.9 | 26.9 | 25.1 | 24.6 | 25 | 27.8 | 27.8 |
| 30 | 31.4 | 32.1 | 32 | 27 | 32.1 | 29.6 | 29.6 |
| 40 | 41.1 | 41.1 | 39.3 | 40.4 | 40.1 | 40.6 | 40.6 |
| 50 | 49.2 | 49.2 | 51.5 | 52.2 | 52.6 | 53.5 | 53.5 |
| 60 | 60 | 60 | 61.1 | 59.8 | 61.9 | 64.9 | 64.9 |
| 70 | 71.6 | 71.3 | 75.2 | 71.7 | 69.4 | 75 | 75 |
| 80 | 84 | 81.2 | 83.5 | 80.1 | 81.9 | 80 | 80 |
| 90 | 91.3 | 91.9 | 95.9 | 93.8 | 91.8 | 92 | 92 |
| 100 | 107.4 | 104.6 | 106.5 | 103 | 102.4 | 104 | 104 |
| 110 | | 109 | | | 109.2 | | |
| 115 | 115.7 | | | | 117 | | |
| 120 | 117.7 | 123.3 | 116.7 | 122.8 | 122.2 | 120 | 120 |
| 130 | 128.4 | 133.3 | 129.6 | 135.1 | 126.3 | 135 | 135 |
| 140 | 134.3 | 141.3 | 140 | | | | |
| 150 | 150.4 | 150.7 | | 150.4 | 151.6 | | |
| 160 | 164 | 162.9 | 155.6 | 160.7 | 158.3 | 157.2 | 157.2 |
| 170 | 168.4 | 172.7 | | | 175.5 | | |
| 180 | 182.2 | 182.3 | 175 | 180 | 183.3 | 177.3 | |
| 200 | 196.7 | 193.4 | 194.4 | 216.2 | | | |

備注 Remsrk: ***為達到此速比時，必須搭配6P馬達使用 Ln nee use 6 pole motor to reach chrtrain ration.

| 公稱速比 NORMAL RATIO | 高段實際減速比 ACTUAL RATIO | | | | | | |
|----------------------|----------------------|---------|---------|---------|-------|-------|-------|
| | 0.1kw | 0.2kw | 0.4kw | 0.75kw | 1.5kw | 2.2kw | 3.7kw |
| 250 | 258.02 | 267.07 | 250.05 | 244.62 | | | |
| 300 | 306.03 | 304.47 | 282.89 | 299.84 | | | |
| 350 | 354.98 | 365.70 | 357.57 | 359.81 | | | |
| 400 | 389.75 | 377.61 | 401.21 | 381.87 | | | |
| 450 | 468.00 | 435.77 | 468.71 | 458.24 | | | |
| 500 | 528.35 | 496.40 | 510.97 | 518.42 | | | |
| 600 | 600.78 | 566.42 | 605.37 | 602.14 | | | |
| 700 | 700.07 | 704.66 | 701.91 | 703.57 | | | |
| 800 | 825.28 | 805.23 | 810.36 | 814.66 | | | |
| 900 | 922.95 | 894.18 | 893.94 | 912.64 | | | |
| 1000 | 1008.09 | 1036.04 | 1014.40 | 985.00 | | | |
| 1100 | 1.97.35 | 1118.51 | 1102.53 | 1114.35 | | | |
| 1200 | 1224.82 | 1172.26 | 1214.91 | 1199.37 | | | |
| 1300 | 1320.80 | 1291.19 | 1298.22 | | | | |
| 1400 | 1374.44 | 1393.98 | | | | | |
| 1500 | 1517.32 | 1540.55 | 1484.89 | 1492.42 | | | |
| 1600 | 1582.76 | 1613.99 | 1574.88 | 1612.36 | | | |
| 1650 | | | | | | | |
| 1700 | 1711.73 | 1685.55 | 1728.08 | | | | |
| 1800 | 1775.20 | 1838.52 | 1821.00 | 1832.99 | | | |

技術參數

輕負載縮框型公稱及實際速比 Light Duty Normal Ratio & Actual Ratio

RPM

| 公稱速比 NORMAL RATIO | 低段實際減速比 ACTUAL RATIO | | | | | | |
|----------------------|----------------------|--------|--------|-----------|-----------|-------|-------|
| | 0.1kw | 0.2kw | 0.4kw | 0.75kw | 1.5kw | 2.2kw | 3.7kw |
| 3 | | | | 2.99 | 2.93 | | |
| 5 | | | | 5.14 | 5.03 | | |
| 10 | | | | 10.01 | 9.96 | | |
| 15 | | 15.09 | | 15.06 | 15.03 | | 15.17 |
| 20 | | 19.90 | 15.06 | 20.14 | 19.49 | | 19.37 |
| 25 | | 26.81 | 20.14 | 26.18 | 25.37 | | 23.72 |
| 30 | | 30.06 | 26.19 | 28.93 | 28.93 | | 29.25 |
| 40 | | 40.33 | 29.31 | 43.07 | 41.64 | | 41.82 |
| 50 | | 50.59 | 44.20 | 52.64 | 52.05 | 51.97 | 51.96 |
| 60 | 60.49 | 60.49 | 56.38 | 57.06 | 57.33 | 59.15 | 59.13 |
| 70 | | | 56.37 | 69.75 | 71.66 | 70.23 | |
| 80 | | | 72.67 | 82.22 | 77.40 | 79.93 | |
| 90 | 89.62 | 89.62 | 82.92 | 88.83 | 86.00 | | |
| 100 | | 103.78 | 92.81 | 100.49 | 107.50 | | |
| 120 | 122.49 | 116.20 | 98.24 | 115.15 | 121.67 | | |
| 140 | 140.41 | 133.05 | 120.07 | 135.00 | 136.26 | | |
| 160 | 161.33 | 162.73 | 135.83 | 150.00 | 163.70 | | |
| 180 | ***183.74 | 182.17 | 155.64 | ***180.00 | ***182.50 | | |
| 200 | ***210.62 | 215.87 | 174.24 | ***202.50 | ***204.39 | | |

備注 Remsrk: ***為達到此速比時，必須搭配6P馬達使用 Ln nee use 6 pole motor to reach chrtrain ration.

| 公稱速比 NORMAL RATIO | 高段實際減速比 ACTUAL RATIO | | | | | | |
|----------------------|----------------------|---------|---------|---------|-------|-------|-------|
| | 0.1kw | 0.2kw | 0.4kw | 0.75kw | 1.5kw | 2.2kw | 3.7kw |
| 250 | 255.98 | 258.02 | 255.16 | 264.54 | | | |
| 300 | 300.50 | 291.90 | 300.12 | 299.28 | | | |
| 350 | 340.02 | 354.98 | 344.47 | 256.29 | | | |
| 400 | 396.18 | 389.75 | 389.76 | 401.72 | | | |
| 450 | | | 443.98 | 457.24 | | | |
| 500 | 510.65 | 528.35 | 493.38 | 519.30 | | | |
| 600 | 610.64 | 600.78 | 594.88 | 599.53 | | | |
| 700 | 687.84 | | 717.74 | 705.75 | | | |
| 800 | 802.87 | 825.28 | 800.32 | 815.69 | | | |
| 900 | 908.43 | | 884.57 | 922.80 | | | |
| 1000 | 1007.13 | 1052.10 | 1000.40 | 1016.86 | | | |
| 1200 | 1321.92 | 1224.82 | 1200.48 | 1210.37 | | | |
| 1500 | 1485.90 | 1523.73 | 1500.61 | 1484.56 | | | |
| 1800 | 1810.24 | 1771.61 | 1775.94 | 1775.20 | | | |

潤滑油 Lubricant

★ 本產品終身免加油保養

This product is life free from maintenance

可替換潤滑油脂 Exchangeable Lubricant

| 廠牌 BRAND | SHELL | COSMO | MOBIL | 昭和石油 | 臺製 |
|----------|--------|-------|----------|------|----------|
| 規格 SPEC | EP-R00 | EP-00 | COMP-632 | R-00 | BT-860-0 |

油量表/重量表 Lubricant/Weight Table

| 功率 kw | 出力軸 OUTPUT SHAFT | 本體框號 HOUSING CODE | 油升表(公升) LUBRICANT | | 重量表(公斤) WEIGHT(KG) | | | | | | |
|----------------|------------------------|-------------------------|----------------------|------------|-----------------------|------|------|------|-------|------|------|
| | | | CH | CV | CH | CHM | CHD | CV | CVM | CVD | |
| | | | CHM CHD | CVM CHD | | | | | | | |
| 0.1kw 1/8HP | φ 18 | 1# | 0.19 | 0.18 | 5.60 | 5.22 | 2.90 | 5.80 | 5.12 | 2.80 | |
| | φ 22 | 2# | 0.38 | 0.39 | 7.30 | 6.40 | 4.00 | 7.30 | 6.52 | 4.10 | |
| | φ 28 | 1#+3# | 0.80 | 0.85 | 14.6 | 12.4 | 11.3 | 14.6 | 12.52 | 11.4 | |
| 0.2kw 1/4HP | φ 18 | 1# | 0.17 | 0.18 | 7.00 | 5.22 | 2.90 | 7.00 | 5.12 | 2.80 | |
| | φ 22 | 2# | 0.38 | 0.39 | 8.60 | 6.42 | 4.00 | 8.80 | 6.52 | 4.10 | |
| | φ 28 | 3# | 0.63 | 0.68 | 11.0 | 9.12 | 8.30 | 10.8 | 8.92 | 8.10 | |
| | φ 32 | 2#+4# | 1.30 | 1.40 | 27.6 | 24.0 | 23.0 | 28.0 | 24.4 | 22.8 | |
| 0.4kw 1/2HP | φ 22 | 2# | 0.38 | 0.39 | 11.1 | 6.42 | 4.80 | 11.2 | 6.52 | 4.90 | |
| | φ 28 | 3# | 0.63 | 0.68 | 14.2 | 9.12 | 8.30 | 14.0 | 8.92 | 8.10 | |
| | φ 32 | 4# | 0.95 | 1.05 | 27.0 | 22.2 | 21.5 | 26.9 | 23.2 | 22.5 | |
| | φ 40 | 3#+5# | 1.80 | 1.90 | 46.0 | 39.8 | 39.1 | 47.0 | 40.8 | 40.1 | |
| 0.75kw 1HP | φ 28 | 3# | 0.63 | 0.68 | 15.5 | 12.1 | 8.30 | 15.0 | 11.9 | 8.10 | |
| | φ 32 | 4# | 0.95 | 1.05 | 27.6 | 25.1 | 21.5 | 28.0 | 26.1 | 22.5 | |
| | φ 40 | 5# | 1.26 | 1.38 | 42.3 | 37.3 | 32.0 | 41.9 | 36.3 | 31.0 | |
| | φ 50 | 3#+6# | 3.00 | 3.13 | 91.5 | 83.5 | 79.2 | 91.5 | 82.5 | 77.2 | |
| 1.5kw 2HP | φ 32 | 4# | 0.95 | 1.05 | 33.6 | 25.0 | 22.0 | 34.6 | 26.0 | 23.0 | |
| | φ 40 | 5# | T | 1.470 | 1.590 | 49.6 | 37.3 | 33.0 | 49.0 | 36.3 | 32.0 |
| | | | TT | 1.260 | 1.470 | | | | | | |
| φ 50 | 6# | 2.520 | 2.600 | 94.0 | 74.3 | 70.0 | 94.0 | 71.3 | 67.0 | | |
| 2.2kw 3HP | φ 40 | 5# | D | 1.680 | 1.800 | 49.8 | 40.8 | 36.5 | 51.0 | 39.8 | 35.5 |
| | | | T | 1.490 | 1.590 | | | | | | |
| φ 50 | 6# | 2.520 | 2.600 | 92.5 | 77.8 | 73.5 | 88.5 | 74.8 | 70.5 | | |
| 3.7kw 5HP | φ 40 | 5# | | 1.680 | 1.800 | 54.8 | 43.8 | 39.5 | 55.3 | 42.8 | 38.0 |
| | | | | 2.520 | 2.600 | | | | | | |

相關計算 Calculate Data

A. 連接系數表 Connection Factor

| | |
|---------------|------|
| 鏈輪 SPROCKET | 1.00 |
| 齒輪 GEAR | 1.25 |
| 三角皮帶 BELT | 1.50 |
| 平皮帶 FLAT BELT | 2.50 |

B. 荷重系數表 Service Factor

| 減速機負載等級 LOAD GRADE | 每日運轉時間(HRS) DAILY OPERATING HOURS | | | |
|------------------------------|--------------------------------------|------|------|-------|
| | 1-2 | 3-8 | 9-15 | 16-24 |
| 均一負載 UNIFORM LOAD | 0.80 | 0.90 | 1.20 | 1.30 |
| 中級衝擊負載 MEDIUM IMPACT LOAD | 1.00 | 1.20 | 1.30 | 1.50 |
| 重級衝擊負載 HEAVY IMPACT LOAD | 1.20 | 1.50 | 1.75 | 2.00 |

C. 符號說明 Code Details

| | | |
|-------------------------------|----------------------------------|-------------------------------------|
| V=速度 SPEED(M/MIN) | E=效率 EFFICIENCY(%) | I INCH=2.54CM |
| I=減速比 RATIO | N ₂ =出力軸轉速 (r/min) | I FOOT=121NCH |
| T=輸出扭力(KG-M) OUTPUT PORQUE | D=滾輪直徑 (MM) ROLLER DIAMETER | 1KW=1000W 1KW=1.34HP |
| K=連結系數 CONNECTING FACTOR | R=滾輪直徑半徑 (MM) ROLLER RADIUS | 1KG-M=7.233FI-LB 1KG-M=86.8IN-LB |
| F=荷重系數 SERVICE FACTOR | KW1(HP1)=輸出馬力 INPUT CAPACITY | 1KG=2.2LB 1LB=0.4536KG |
| W=荷重 LOAD | KW2(HP2)=輸出馬力 OUTPUT CAPACITY | N1=入力回 (r/min) |

D. 基本傳動公式 Basic Formular

| | |
|-----------------------------------|--------------------------------|
| 減速比 Ratio | $I = N_2 / N_1$ |
| 回轉速度 Rotation Speed(r/min) | $N_1 = V / \pi D$ |
| 輸出扭矩 Output Torque(kg-m) | $T = W \times R \times K$ |
| 輸入功率 Input Horsepower(公制 Metric) | $KW_1 = N \times T \times 974$ |
| 輸入馬力 Input Horsepower(英制 Inch) | $HP_1 = N \times T / 716$ |
| 輸出功率 Output Horsepower(公制 Metric) | $KW_2 = KW_1 \times F/E$ |
| 輸出馬力 Output Horsepower(英制 Inch) | $HP_2 = HP_1 \times F/E$ |

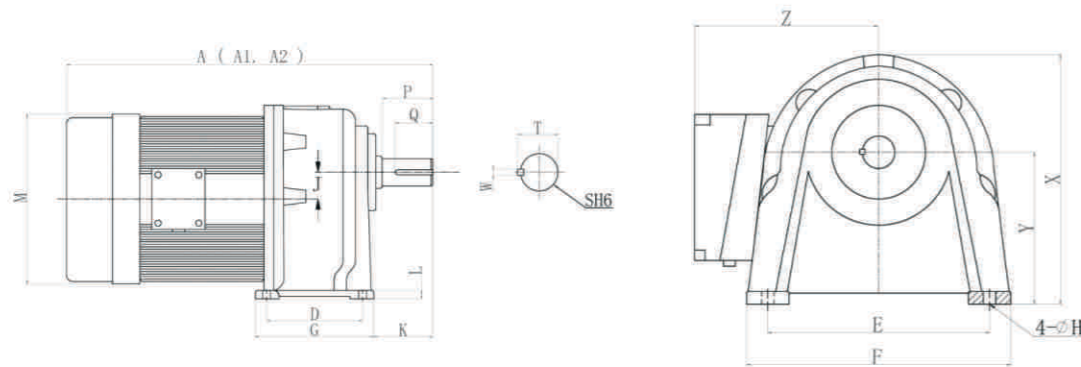
速比/段數適用表 Ratio / Gear Stage Table

| 功率 kw | 速比 RATIO | 雙段 (D) 2 ND STAGE | 三段 (T) 3 ND STAGE | 雙本體 1#+3# TWIN HOUSING | 雙本體 2#+4# TWIN HOUSING | 雙本體 3#+5# TWIN HOUSING | 雙本體 3#+6# TWIN HOUSING |
|-----------------|---------------|------------------------------------|------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 0.1kw 1-8/HP | 1/3-1/50 | D | | | | | |
| | 1/60-1/200 | | T | | | | |
| | 1/150,180,200 | | T | | | | |
| | 1-250-1/1800 | | | DD | | | |
| 0.2kw 1-4/HP | 1/3-1/35 | D | | | | | |
| | 1/40-1/200 | | T | | | | |
| | 1/160,180,200 | | T | | | | |
| | 1-250-1/1800 | | | | DD | | |
| 0.4kw 1-2/HP | 1/3-1/35 | D | | | | | |
| | 1/40-1/1200 | | T | | | | |
| | 1/250-1/1800 | | | | | DD | |
| 0.75kw 1HP | 1/3-1/30 | D | | | | | |
| | 1/40-1/120 | | T | | | | |
| | 1/125-1/200 | | T | | | | |
| | 1/250-1/1800 | | T | | | | DD |
| 1.5kw 2HP | 1/3-1/22 | D | | | | | |
| | 1/25-1/50 | | T | | | | |
| | 1/55-1/100 | | | | | | |
| | 1/105,115,120 | | T | | | | |
| 2.2kw 3HP | 1/110-1/180 | | T | | | | |
| | 1/3-1/15 | D | | | | | |
| 3.7kw 5HP | 1/20-1/100 | | T | | | | |
| | 1/3-1/25 | D | | | | | |
| | 1/30-1/60 | | T | | | | |

**馬達到以下速比時,必須搭配6P馬達適用 To reach certain ratio that need to use 6 pole motor

| | |
|-----|-------------------------------|
| 2HP | 1/130,1/150,1/160,1/170,1/180 |
|-----|-------------------------------|

CH型減速馬達及制動減速馬達 CH Type Gear Motor And Brake Gear Motor



出力軸尺寸 Output Shaft

| 型號 Size(S) | 出力軸 SHAET | | 鍵槽 KEYWAY | | | 鍵 KEY |
|---------------|--------------|----|--------------|------|----|----------|
| | Sh6 | P | W | T | Q | SPEC' |
| 18 | φ18 | 30 | 5 | 20 | 25 | 5×5×25 |
| 22 | φ22 | 40 | 7 | 25 | 35 | 7×7×35 |
| 28 | φ28 | 45 | 7 | 31 | 40 | 7×7×40 |
| 32 | φ32 | 55 | 10 | 35.5 | 50 | 10×8×50 |
| 40 | φ40 | 65 | 10 | 43.5 | 60 | 10×8×60 |
| 50 | φ50 | 80 | 14 | 54 | 75 | 14×9×75 |

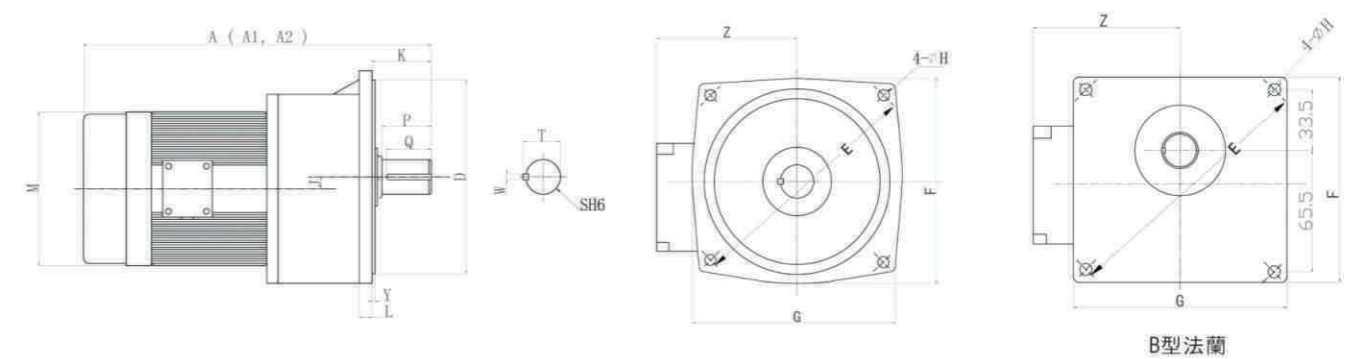
尺寸表 Dimensions (m/m)

| 功率 kw | 減速比 RATIO | 本體 CODE | 型號 Size(S) | A | A1 | A2 | D | E | F | G | H | J | K | L | M | X | Y | Z |
|----------------|--------------|------------|---------------|-----|-----|-----|-----|-----|-----|-----|----|------|-----|------|-----|-----|-------|-----|
| 0.1kw 1/8HP | 3-50 | 1# | 18 | 257 | 273 | 257 | 40 | 110 | 135 | 65 | 9 | 16 | 50 | 10 | 133 | 138 | 88.5 | 120 |
| | 60-200 | 2# | 22 | 291 | 307 | 291 | 65 | 130 | 158 | 90 | 11 | 18.2 | 60 | 13 | 133 | 152 | 97.8 | 120 |
| 0.2kw 1/4HP | 3-10 | 1# | 18 | 277 | 293 | 277 | 40 | 110 | 135 | 65 | 9 | 16 | 50 | 10 | 133 | 138 | 88.5 | 120 |
| | 13-90 | 2# | 22 | 311 | 327 | 311 | 65 | 130 | 158 | 90 | 11 | 18.2 | 60 | 13 | 133 | 152 | 97.5 | 120 |
| | 100-200 | 3# | 28 | 337 | 353 | 337 | 90 | 140 | 178 | 120 | 12 | 20.8 | 68 | 17 | 133 | 178 | 116 | 120 |
| 0.4kw 1/2HP | 3-10 | 2# | 22 | 331 | 346 | 331 | 65 | 130 | 158 | 90 | 11 | 18.2 | 60 | 13 | 167 | 152 | 97.5 | 135 |
| | 13-90 | 3# | 28 | 357 | 372 | 357 | 90 | 140 | 178 | 120 | 12 | 20.8 | 68 | 17 | 167 | 178 | 116 | 135 |
| | 100-200 | 4# | 32 | 392 | 407 | 392 | 130 | 170 | 210 | 165 | 13 | 30.2 | 70 | 23 | 167 | 212 | 138.5 | 135 |
| 0.75kw 1HP | 3-25 | 3# | 28 | 382 | 415 | 382 | 90 | 140 | 178 | 120 | 12 | 20.8 | 68 | 17 | 167 | 178 | 116 | 135 |
| | 30-120 | 4# | 32 | 417 | 449 | 417 | 130 | 170 | 210 | 165 | 13 | 30.2 | 70 | 23 | 167 | 212 | 138.5 | 135 |
| | 125-200 | 5# | 40 | 444 | 476 | 444 | 150 | 210 | 265 | 198 | 15 | 42.2 | 85 | 24 | 167 | 250 | 160 | 135 |
| 1.5kw 2HP | 3-25 | 4# | 32 | 470 | | 470 | 130 | 170 | 210 | 165 | 13 | 30.2 | 70 | 23 | 192 | 212 | 138.5 | 146 |
| | 30-120 | 5# | 40 | 497 | | 497 | 150 | 210 | 265 | 198 | 15 | 42.2 | 85 | 24 | 192 | 250 | 160 | 146 |
| | 125-200 | 6# | 50 | 538 | | 538 | 170 | 265 | 321 | 238 | 18 | 51.7 | 120 | 31.5 | 192 | 308 | 200 | 146 |
| 2.2kw 3HP | 3-60 | 5# | 40 | 508 | | 508 | 150 | 210 | 265 | 198 | 15 | 42.2 | 85 | 24 | 220 | 250 | 160 | 160 |
| | 70-200 | 6# | 50 | 549 | | 549 | 170 | 265 | 321 | 238 | 18 | 51.7 | 120 | 31.5 | 220 | 308 | 200 | 160 |
| 3.7kw 5HP | 3-10 | 5# | 40 | 524 | | 524 | 150 | 210 | 265 | 198 | 15 | 42.2 | 85 | 24 | 220 | 250 | 160 | 160 |
| | 15-200 | 6# | 50 | 565 | | 565 | 170 | 265 | 321 | 238 | 18 | 51.7 | 120 | 31.5 | 220 | 308 | 200 | 160 |

備注: A:三相鋁殼馬達 With 3-Phase Aluminum Motor
A1:單相馬達 Single-Phase Asynchronous Motor

A2:三相馬達附制動器 With 3-Phase Brake Motor

CV型減速馬達及制動減速馬達 CV Type Gear Motor And Brake Gear Motor



出力軸尺寸 Output Shaft

| 型號 Size(S) | 出力軸 SHAET | | 鍵槽 KEYWAY | | | 鍵 KEY |
|---------------|--------------|----|--------------|------|----|----------|
| | Sh6 | P | W | T | Q | SPEC' |
| 18 | φ18 | 30 | 5 | 20 | 25 | 5×5×25 |
| 22 | φ22 | 40 | 7 | 25 | 35 | 7×7×35 |
| 28 | φ28 | 45 | 7 | 31 | 40 | 7×7×40 |
| 32 | φ32 | 55 | 10 | 35.5 | 50 | 10×8×50 |
| 40 | φ40 | 65 | 10 | 43.5 | 60 | 10×8×60 |
| 50 | φ50 | 80 | 14 | 54 | 75 | 14×9×75 |

尺寸表 Dimensions (m/m)

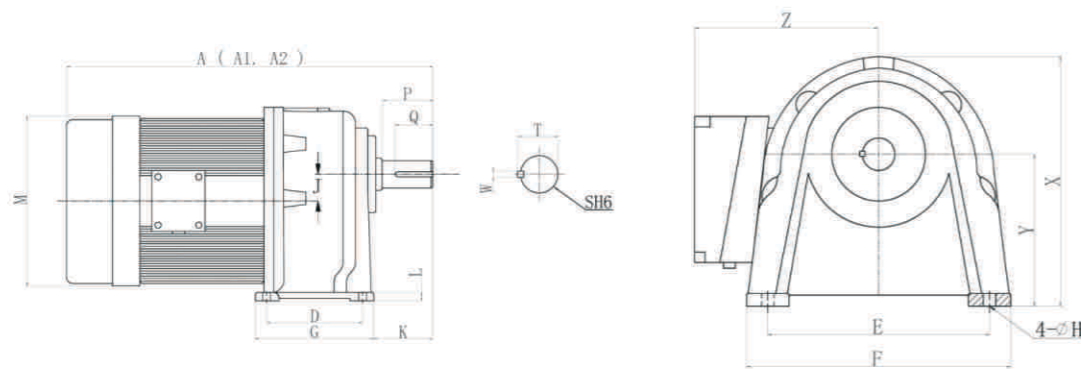
| 功率 kw | 減速比 RATIO | 本體 CODE | 型號 Size(S) | A | A1 | A2 | D | E | F | G | H | J | K | L | M | Y | Z |
|----------------|--------------|------------|---------------|-----|-----|-----|-----|-----|-----|-----|----|------|-----|----|-----|-----|-----|
| 0.1kw 1/8HP | 3-50 | 1# | *18 | 257 | 273 | 257 | 50 | 140 | 120 | 120 | 9 | 16 | 40 | 12 | 133 | 5 | 120 |
| | 60-200 | 2# | 22 | 291 | 307 | 291 | 148 | 185 | 175 | 165 | 11 | 18.2 | 48 | 12 | 133 | 3.5 | 120 |
| 0.2kw 1/4HP | 3-10 | 1# | *18 | 277 | 293 | 277 | 50 | 140 | 120 | 120 | 9 | 16 | 40 | 12 | 133 | 5 | 120 |
| | 13-90 | 2# | 22 | 331 | 327 | 331 | 148 | 185 | 175 | 165 | 11 | 18.2 | 48 | 12 | 133 | 3.5 | 120 |
| | 100-200 | 3# | 28 | 337 | 353 | 337 | 170 | 220 | 205 | 195 | 12 | 20.8 | 58 | 13 | 133 | 3.5 | 120 |
| 0.4kw 1/2HP | 3-10 | 2# | 22 | 331 | 346 | 331 | 148 | 185 | 175 | 165 | 11 | 18.2 | 48 | 12 | 167 | 4 | 135 |
| | 13-90 | 3# | 28 | 357 | 372 | 357 | 170 | 220 | 205 | 195 | 12 | 20.8 | 58 | 13 | 167 | 3.5 | 135 |
| | 100-200 | 4# | 32 | 392 | 407 | 392 | 185 | 255 | 248 | 225 | 15 | 30.2 | 65 | 16 | 167 | 4 | 135 |
| 0.75kw 1HP | 3-25 | 3# | 28 | 382 | 415 | 382 | 170 | 220 | 205 | 195 | 12 | 20.8 | 58 | 13 | 167 | 4 | 135 |
| | 30-120 | 4# | 32 | 417 | 449 | 417 | 185 | 255 | 248 | 225 | 15 | 30.2 | 65 | 16 | 167 | 4 | 135 |
| | 125-200 | 5# | 40 | 444 | 476 | 444 | 230 | 310 | 291 | 272 | 15 | 42.2 | 85 | 21 | 167 | 4 | 135 |
| 1.5kw 2HP | 3-25 | 4# | 32 | 470 | | 470 | 185 | 255 | 248 | 225 | 15 | 30.2 | 65 | 16 | 192 | 5 | 146 |
| | 30-120 | 5# | 40 | 497 | | 497 | 230 | 310 | 291 | 272 | 15 | 42.2 | 85 | 21 | 192 | 4 | 146 |
| | 125-200 | 6# | 50 | 538 | | 538 | 280 | 390 | 372 | 342 | 18 | 51.7 | 92 | 25 | 192 | 5 | 146 |
| 2.2kw 3HP | 3-60 | 5# | 40 | 508 | | 508 | 230 | 310 | 291 | 272 | 15 | 42.2 | 85 | 21 | 220 | 5 | 160 |
| | 70-200 | 6# | 50 | 549 | | 549 | 280 | 390 | 372 | 342 | 18 | 41.7 | 92 | 25 | 220 | 5 | 160 |
| 3.7kw 5HP | 3-10 | 5# | 40 | 524 | | 524 | 230 | 310 | 291 | 272 | 15 | 42.2 | 85 | 21 | 220 | 5 | 160 |
| | 15-200 | 6# | 50 | 565 | | 565 | 280 | 390 | 372 | 342 | 18 | 51.7 | 120 | 25 | 220 | 5 | 160 |

備注: A:三相鋁殼馬達 With 3-Phase Aluminum Motor
A1:單相馬達 Single-Phase Asynchronous Motor

A2:三相馬達附制動器 With 3-Phase Brake Motor
*:屬於B型出力法蘭 Belong To B Type Output Flange

CH型縮框減速馬達及制動減速馬達

CH Type Shrinking Frame Gear Motor And Brake Gear Motor



出力軸尺寸 Output Shaft

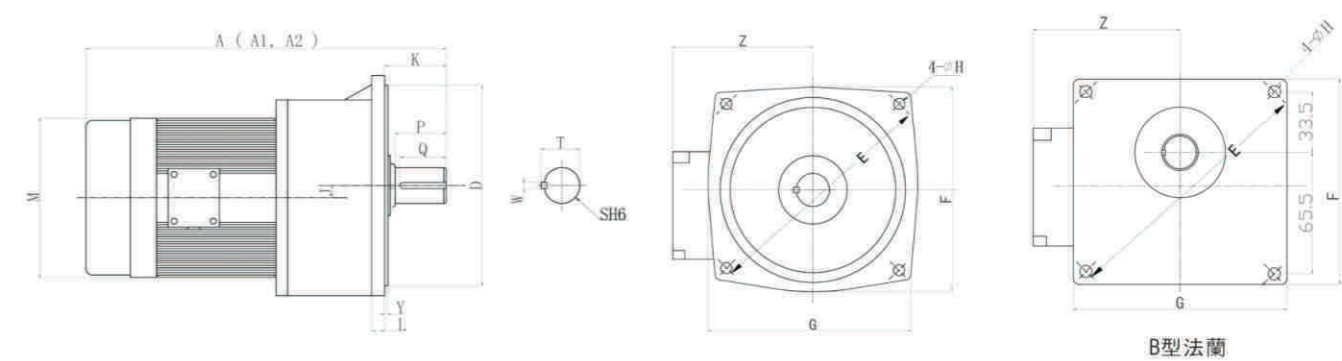
| 型號 Size(S) | 出力軸 SHAET | | 鍵槽 KEYWAY | | | 鍵 KEY |
|---------------|--------------|----|--------------|------|----|----------|
| | Sh6 | P | W | T | Q | SPEC' |
| 18 | φ18 | 30 | 5 | 20 | 25 | 5×5×25 |
| 22 | φ22 | 40 | 7 | 25 | 35 | 7×7×35 |
| 28 | φ28 | 45 | 7 | 31 | 40 | 7×7×40 |
| 32 | φ32 | 55 | 10 | 35.5 | 50 | 10×8×50 |
| 40 | φ40 | 65 | 10 | 43.5 | 60 | 10×8×60 |

尺寸表 Dimensions (m/m)

| 功率 kw | 減速比 RATIO | 本體 CODE | 型號 Size(S) | A | A1 | A2 | D | E | F | G | H | J | K | L | M | X | Y | Z |
|----------------|--------------|------------|---------------|-----|-----|-----|-----|-----|-----|-----|----|------|----|----|-----|-----|-------|-----|
| 0.1kw 1/8HP | 60-200 | 1# | 18 | 257 | 273 | 257 | 40 | 110 | 135 | 65 | 9 | 16 | 50 | 10 | 133 | 138 | 88.5 | 120 |
| | 15-90 | 1# | 18 | 277 | 293 | 277 | 40 | 110 | 135 | 65 | 9 | 16 | 50 | 10 | 138 | 138 | 88.5 | 120 |
| 0.2kw 1/4HP | 100-200 | 2# | 22 | 311 | 327 | 311 | 65 | 130 | 158 | 90 | 11 | 18.2 | 60 | 13 | 152 | 152 | 97.5 | 120 |
| | 15-90 | 2# | 22 | 331 | 346 | 331 | 65 | 130 | 158 | 90 | 11 | 18.2 | 60 | 13 | 152 | 152 | 97.5 | 135 |
| 0.4kw 1/2HP | 100-200 | 3# | 28 | 357 | 372 | 357 | 90 | 140 | 178 | 120 | 11 | 20.8 | 68 | 17 | 178 | 178 | 116 | 135 |
| | 3-25 | 2# | 22 | 356 | 390 | 356 | 65 | 130 | 158 | 90 | 11 | 18.2 | 60 | 13 | 152 | 152 | 97.5 | 135 |
| 0.75kw 1HP | 30-120 | 3# | 28 | 382 | 414 | 382 | 90 | 140 | 178 | 120 | 11 | 20.8 | 68 | 17 | 178 | 178 | 116 | 135 |
| | 125-200 | 4# | 32 | 417 | 449 | 417 | 130 | 170 | 210 | 165 | 13 | 30.2 | 70 | 23 | 212 | 212 | 140 | 135 |
| | 3-25 | 3# | 28 | 436 | | 436 | 90 | 140 | 178 | 120 | 11 | 20.8 | 68 | 17 | 178 | 178 | 116 | 146 |
| 1.5kw 2HP | 30-120 | 4# | 32 | 470 | | 470 | 130 | 170 | 210 | 165 | 13 | 30.2 | 70 | 23 | 212 | 212 | 140 | 146 |
| | 125-200 | 5# | 40 | 497 | | 497 | 150 | 210 | 265 | 198 | 15 | 40.2 | 85 | 25 | 250 | 250 | 162 | 146 |
| | 3-60 | 4# | 32 | 481 | | 481 | 130 | 170 | 215 | 160 | 13 | 30.2 | 85 | 25 | 210 | 210 | 138.5 | 153 |
| 2.2kw 3HP | 70-200 | 5# | 40 | 508 | | 508 | 150 | 210 | 260 | 185 | 15 | 42.2 | 85 | 25 | 248 | 248 | 160 | 153 |
| | 30-120 | 5# | 40 | 524 | | 524 | 150 | 210 | 260 | 185 | 15 | 42.2 | 85 | 25 | 248 | 248 | 160 | 153 |

CV型縮框減速馬達及制動減速馬達

CV Type Shrinking Frame Gear Motor And Brake Gear Motor



出力軸尺寸 Output Shaft

| 型號 Size(S) | 出力軸 SHAET | | 鍵槽 KEYWAY | | | 鍵 KEY |
|---------------|--------------|----|--------------|------|----|----------|
| | Sh6 | P | W | T | Q | SPEC' |
| 18 | φ18 | 30 | 5 | 20 | 25 | 5×5×25 |
| 22 | φ22 | 40 | 7 | 25 | 35 | 7×7×35 |
| 28 | φ28 | 45 | 7 | 31 | 40 | 7×7×40 |
| 32 | φ32 | 55 | 10 | 35.5 | 50 | 10×8×50 |
| 40 | φ40 | 65 | 10 | 43.5 | 60 | 10×8×60 |

尺寸表 Dimensions (m/m)

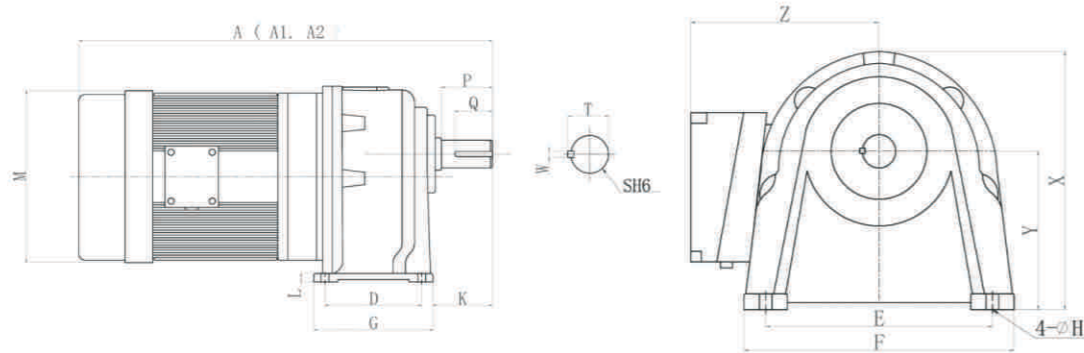
| 功率 kw | 減速比 RATIO | 本體 CODE | 型號 Size(S) | A | A1 | A2 | D | E | F | G | H | J | K | L | M | Y | Z |
|----------------|--------------|------------|---------------|-----|-----|-----|-----|-----|-----|-----|----|------|----|----|-----|---|-----|
| 0.1kw 1/8HP | 60-200 | 1# | *18 | 257 | 273 | 257 | 50 | 140 | 120 | 120 | 9 | 16 | 38 | 12 | 133 | 6 | 120 |
| | 15-90 | 1# | *18 | 277 | 293 | 277 | 50 | 140 | 120 | 120 | 9 | 16 | 38 | 12 | 133 | 6 | 120 |
| 0.2kw 1/4HP | 100-200 | 2# | 22 | 327 | 327 | 327 | 148 | 185 | 170 | 156 | 11 | 18.2 | 49 | 12 | 133 | 3 | 120 |
| | 15-90 | 2# | 22 | 331 | 346 | 331 | 148 | 185 | 170 | 156 | 11 | 18.2 | 49 | 12 | 167 | 3 | 135 |
| 0.4kw 1/2HP | 100-200 | 3# | 28 | 357 | 372 | 357 | 170 | 220 | 195 | 180 | 12 | 20.8 | 57 | 15 | 167 | 3 | 135 |
| | 3-25 | 2# | 22 | 355 | 390 | 355 | 148 | 185 | 170 | 156 | 11 | 18.2 | 49 | 12 | 167 | 3 | 135 |
| 0.75kw 1HP | 30-120 | 3# | 28 | 382 | 414 | 382 | 170 | 220 | 195 | 180 | 12 | 20.8 | 57 | 15 | 167 | 3 | 135 |
| | 125-200 | 4# | 32 | 417 | 449 | 417 | 185 | 255 | 237 | 215 | 15 | 30.2 | 67 | 17 | 167 | 3 | 135 |
| | 3-25 | 3# | 28 | 436 | | 436 | 170 | 220 | 195 | 180 | 12 | 30.2 | 57 | 15 | 192 | 3 | 146 |
| 1.5kw 2HP | 30-120 | 4# | 32 | 470 | | 470 | 185 | 255 | 237 | 215 | 15 | 42.2 | 67 | 17 | 192 | 3 | 146 |
| | 125-200 | 5# | 40 | 497 | | 497 | 230 | 310 | 300 | 275 | 15 | 42.2 | 79 | 20 | 192 | 5 | 146 |
| | 3-60 | 4# | 32 | 481 | | 481 | 230 | 310 | 300 | 275 | 15 | 42.2 | 79 | 20 | 220 | 5 | 160 |
| 2.2kw 3HP | 45-80 | 5# | 40 | 508 | | 508 | 230 | 310 | 300 | 275 | 15 | 42.2 | 79 | 20 | 220 | 5 | 160 |
| 3.7kw 5HP | 30-120 | 5# | 40 | 524 | | 524 | 230 | 310 | 300 | 275 | 15 | 42.2 | 79 | 20 | 220 | 5 | 160 |

備注: A: 三相鋁殼馬達 With 3-Phase Aluminum Motor
A1: 單相馬達 Single-Phase Asynchronous Motor

A2: 三相馬達附剎車器 With 3-Phase Brake Motor
*: 屬於B型出力法蘭 Belong To B Type Output Flange

CH型高速比減速馬達及制動減速馬達

CH Type High Speed Ratio Gear Motor And Brake Gear Motor



出力軸尺寸 Output Shaft

| 型號 Size(S) | 出力軸 SHAET | | 鍵槽 KEYWAY | | | 鍵 KEY |
|---------------|--------------|----|--------------|------|----|----------|
| | Sh6 | P | W | T | Q | SPEC' |
| 28 | φ28 | 45 | 7 | 31 | 40 | 7×7×40 |
| 32 | φ32 | 55 | 10 | 35.5 | 50 | 10×8×50 |
| 40 | φ40 | 65 | 10 | 43.5 | 60 | 10×8×60 |
| 50 | φ50 | 80 | 14 | 54 | 75 | 14×9×75 |



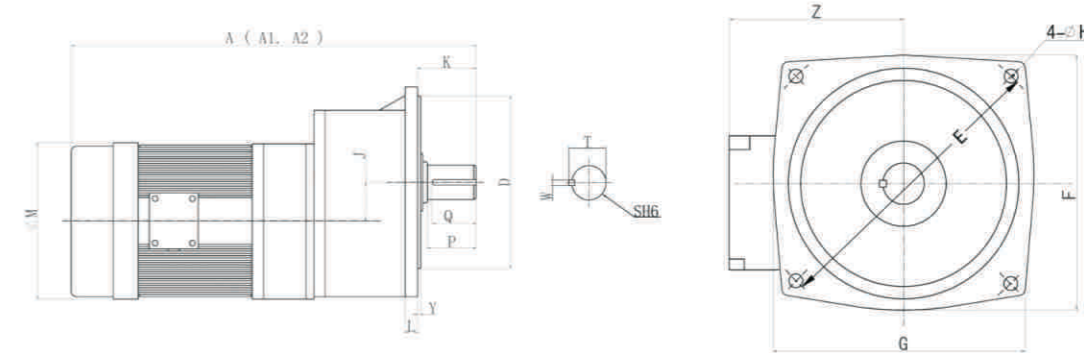
尺寸表 Dimensions (m/m)

| 功率 kw | 減速比 RATIO | 本體 CODE | 型號 Size(S) | A | A1 | A2 | D | E | F | G | H | J | K | L | M | X | Y | Z |
|----------------|--------------|------------|---------------|-----|-----|-----|-----|-----|-----|-----|----|------|-----|----|-----|-----|-------|-----|
| 0.1kw 1/8HP | 210-1800 | 1# + 3# | 28 | 390 | 410 | 394 | 90 | 140 | 180 | 120 | 11 | 20.8 | 65 | 15 | 133 | 180 | 116 | 120 |
| 0.2kw 1/4HP | 210-1800 | 2# + 4# | 32 | 471 | 491 | 475 | 130 | 170 | 215 | 160 | 13 | 30.2 | 76 | 20 | 133 | 210 | 138.5 | 120 |
| 0.4kw 1/2HP | 210-1800 | 3# + 5# | 40 | 532 | 551 | 536 | 150 | 210 | 260 | 185 | 15 | 42.2 | 85 | 23 | 167 | 248 | 160 | 135 |
| 0.75kw 1HP | 210-1800 | 3# + 6# | 50 | 602 | 635 | 602 | 170 | 265 | 330 | 220 | 19 | 51.7 | 120 | 25 | 167 | 315 | 200 | 135 |

備注: A : 三相鋁殼馬達 With 3-Phase Aluminum Motor
 A1 : 單相馬達 Single-Phase Asynchronous Motor
 A2 : 三相馬達附剎車器 With 3-Phase Brake Motor

CV型高速比減速馬達及制動減速馬達

CV Type High Speed Ratio Gear Motor And Brake Gear Motor



出力軸尺寸 Output Shaft

| 型號 Size(S) | 出力軸 SHAET | | 鍵槽 KEYWAY | | | 鍵 KEY |
|---------------|--------------|----|--------------|------|----|----------|
| | Sh6 | P | W | T | Q | SPEC' |
| 28 | φ28 | 45 | 7 | 31 | 40 | 7×7×40 |
| 32 | φ32 | 55 | 10 | 35.5 | 50 | 10×8×50 |
| 40 | φ40 | 65 | 10 | 43.5 | 60 | 10×8×60 |
| 50 | φ50 | 80 | 14 | 54 | 75 | 14×9×75 |



尺寸表 Dimensions (m/m)

| 功率 kw | 減速比 RATIO | 本體 CODE | 型號 Size(S) | A | A1 | A2 | D | E | F | G | H | J | K | L | M | Y | Z |
|----------------|--------------|------------|---------------|-----|-----|-----|-----|-----|-----|-----|----|------|-----|----|-----|---|-----|
| 0.1kw 1/8HP | 210-1800 | 1# + 3# | 28 | 390 | 410 | 394 | 170 | 220 | 195 | 180 | 11 | 20.8 | 57 | 15 | 133 | 4 | 120 |
| 0.2kw 1/4HP | 210-1800 | 2# + 4# | 32 | 471 | 491 | 475 | 185 | 255 | 237 | 215 | 13 | 30.2 | 67 | 15 | 133 | 4 | 120 |
| 0.4kw 1/2HP | 210-1800 | 3# + 5# | 40 | 532 | 551 | 536 | 230 | 310 | 300 | 275 | 15 | 42.2 | 79 | 20 | 167 | 5 | 135 |
| 0.75kw 1HP | 210-1800 | 3# + 6# | 50 | 602 | 635 | 602 | 280 | 390 | 360 | 330 | 19 | 51.7 | 120 | 20 | 167 | 5 | 135 |

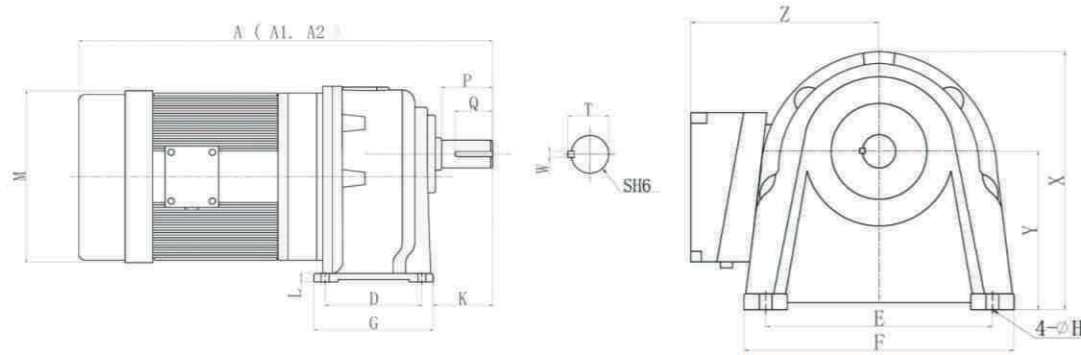
備注: A : 三相鋁殼馬達 With 3-Phase Aluminum Motor
 A1 : 單相馬達 Single-Phase Asynchronous Motor
 A2 : 三相馬達附剎車器 With 3-Phase Brake Motor

外形圖

外形圖

CH型高速比縮框減速馬達及制動減速馬達

CH Type High Speed Ratio Shrinking Frame Gear Motor And Brake Gear Motor



出力軸尺寸 Output Shaft

| 型號 Size(S) | 出力軸 SHAET | | 鍵槽 KEYWAY | | | 鍵 KEY |
|---------------|--------------|----|--------------|------|----|----------|
| | Sh6 | P | W | T | Q | SPEC' |
| 22 | φ22 | 40 | 7 | 25 | 35 | 7×7×35 |
| 28 | φ28 | 45 | 7 | 31 | 40 | 7×7×40 |
| 32 | φ32 | 55 | 10 | 35.5 | 50 | 10×8×50 |
| 40 | φ40 | 65 | 10 | 43.5 | 60 | 10×8×60 |

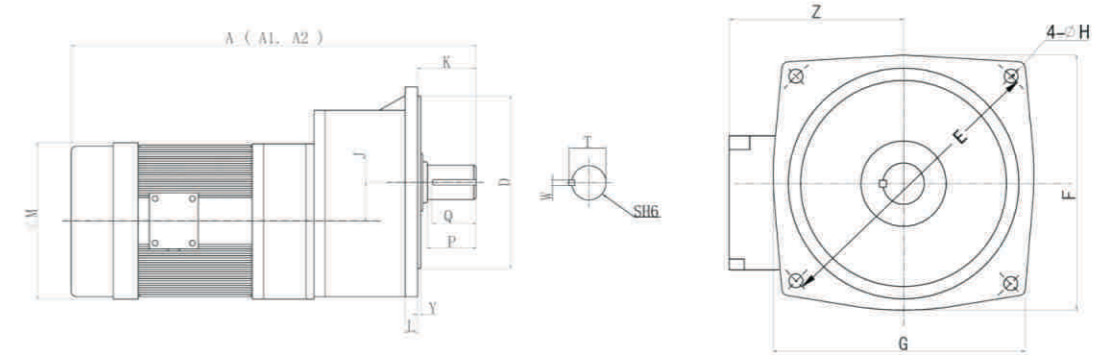
尺寸表 Dimensions (m/m)

| 功率 kw | 減速比 RATIO | 本體 CODE | 型號 Size(S) | A | A1 | A2 | D | E | F | G | H | J | K | L | M | X | Y | Z |
|----------------|--------------|------------|---------------|-----|-----|-----|-----|-----|-----|------|----|------|----|----|-----|------|-------|-----|
| 0.1kw 1/8HP | 210-1800 | 1# + 2# | 22 | 365 | 385 | 368 | 65 | 130 | 163 | 90 | 11 | 18.2 | 56 | 15 | 133 | 1152 | 97.5 | 120 |
| 0.2kw 1/4HP | 210-1800 | 1# + 3# | 28 | 410 | 430 | 414 | 90 | 140 | 180 | 122 | 11 | 20.8 | 65 | 15 | 133 | 180 | 116 | 120 |
| 0.4kw 1/2HP | 210-1800 | 2# + 4# | 32 | 491 | 510 | 495 | 130 | 170 | 215 | 1960 | 13 | 30.2 | 76 | 25 | 167 | 210 | 138.5 | 135 |
| 0.75kw 1HP | 210-1800 | 3# + 5# | 40 | 561 | 594 | 561 | 150 | 210 | 260 | 185 | 15 | 42.2 | 85 | 25 | 167 | 248 | 160 | 135 |

備注: A : 三相鋁殼馬達 With 3-Phase Aluminum Motor
A1 : 單相馬達 Single-Phase Asynchronous Motor
A2 : 三相馬達附剎車器 With 3-Phase Brake Motor

CV型高速比縮框減速馬達及制動減速馬達

CV Type High Speed Ratio Shrinking Frame Gear Motor And Brake Gear Motor



出力軸尺寸 Output Shaft

| 型號 Size(S) | 出力軸 SHAET | | 鍵槽 KEYWAY | | | 鍵 KEY |
|---------------|--------------|----|--------------|------|----|----------|
| | Sh6 | P | W | T | Q | SPEC' |
| 22 | φ22 | 40 | 7 | 25 | 35 | 7×7×35 |
| 28 | φ28 | 45 | 7 | 31 | 40 | 7×7×40 |
| 32 | φ32 | 55 | 10 | 35.5 | 50 | 10×8×50 |
| 40 | φ40 | 65 | 10 | 43.5 | 60 | 10×8×60 |

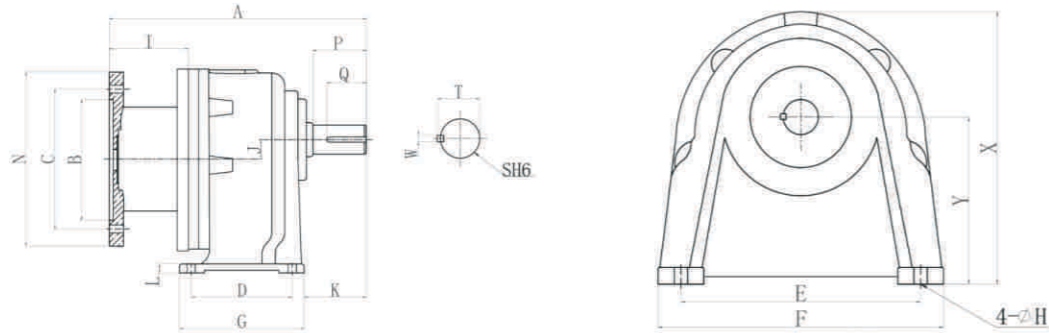
尺寸表 Dimensions (m/m)

| 功率 kw | 減速比 RATIO | 本體 CODE | 型號 Size(S) | A | A1 | A2 | D | E | F | G | H | J | K | L | M | Y | Z |
|----------------|--------------|------------|---------------|-----|-----|-----|-----|-----|-----|-----|----|------|----|----|-----|-------|-----|
| 0.1kw 1/8HP | 210-1800 | 1# + 2# | 22 | 364 | 384 | 368 | 148 | 185 | 170 | 156 | 11 | 18.2 | 49 | 12 | 133 | 97.5 | 120 |
| 0.2kw 1/4HP | 210-1800 | 1# + 3# | 28 | 410 | 430 | 414 | 170 | 220 | 195 | 180 | 11 | 20.8 | 57 | 15 | 133 | 116 | 120 |
| 0.4kw 1/2HP | 210-1800 | 2# + 4# | 32 | 491 | 510 | 495 | 185 | 255 | 237 | 215 | 13 | 30.2 | 67 | 17 | 167 | 138.5 | 135 |
| 0.75kw 1HP | 210-1800 | 3# + 5# | 40 | 561 | 594 | 561 | 230 | 310 | 300 | 275 | 15 | 42.2 | 79 | 20 | 167 | 160 | 135 |

備注: A : 三相鋁殼馬達 With 3-Phase Aluminum Motor
A1 : 單相馬達 Single-Phase Asynchronous Motor
A2 : 三相馬達附剎車器 With 3-Phase Brake Motor

CHM 型卧式入力法蘭齒輪減速機

CHM Horizontal Type Flange Reducer Withor Motors



入力孔尺寸 Input Bore

| 功率 kw | 入力軸 BORE | 鍵槽 KEYWAY | |
|----------|-------------|--------------|------|
| | S1F7 | W1 | T1 |
| 0.2 | φ11 | 4 | 12.8 |
| 0.4 | φ14 | 5 | 16.3 |
| 0.75 | φ19 | 6 | 21.3 |
| 1.5 | φ24 | 8 | 21.8 |
| 2.2 | φ28 | 8 | 27.3 |
| 3.7 | φ28 | 8 | 31.3 |

出力軸尺寸 Output Shaft

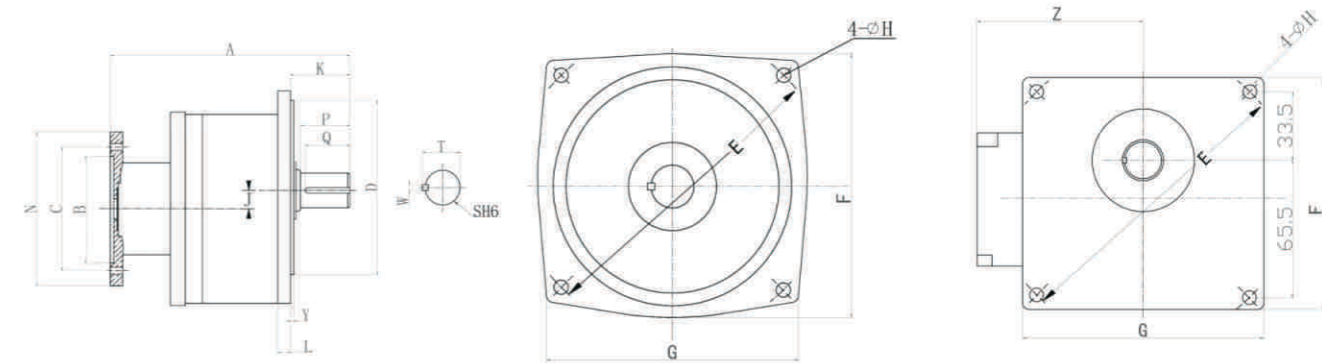
| 型號 Size(S) | 出力軸 SHAET | 鍵槽 KEYWAY | | | | 鍵 KEY |
|---------------|--------------|--------------|----|------|----|----------|
| | Sh6 | P | W | T | Q | SPEC' |
| 18 | φ18 | 30 | 5 | 20 | 25 | 5×5×25 |
| 22 | φ22 | 40 | 7 | 25 | 35 | 7×7×35 |
| 28 | φ28 | 45 | 7 | 31 | 40 | 7×7×40 |
| 32 | φ32 | 55 | 10 | 35.5 | 50 | 10×8×50 |
| 40 | φ40 | 65 | 10 | 43.5 | 60 | 10×8×60 |
| 50 | φ50 | 80 | 14 | 54 | 75 | 14×9×75 |

尺寸表 Dimensions (m/m)

| 功率 kw | 減速比 RATIO | 型號 Size(S) | A | B | C | D | E | F | G | H | I | J | K | L | N | X | Y | Z |
|----------------|--------------|---------------|-----|-----|-----|-----|-----|-----|-----|----|------|------|-----|----|-----|-----|-------|-----|
| 0.1kw 1/4HP | 3-10 | *18 | 153 | 95 | 115 | 40 | 110 | 135 | 65 | 9 | 52.5 | 16 | 45 | 10 | 140 | 132 | 88.5 | M8 |
| | 15-90 | 22 | 188 | 95 | 115 | 65 | 130 | 159 | 90 | 11 | 52.5 | 18.2 | 56 | 15 | 140 | 152 | 97.5 | M8 |
| | 100-200 | 28 | 216 | 95 | 115 | 90 | 140 | 180 | 120 | 12 | 52.5 | 20.8 | 65 | 15 | 140 | 180 | 116 | M8 |
| 0.4kw 1/2HP | 3-10 | 22 | 188 | 110 | 130 | 65 | 130 | 160 | 90 | 11 | 52.5 | 18.2 | 56 | 15 | 158 | 152 | 97.5 | M8 |
| | 13-90 | 28 | 216 | 110 | 130 | 90 | 140 | 180 | 120 | 12 | 52.5 | 20.8 | 65 | 15 | 158 | 180 | 116 | M8 |
| | 100-200 | 32 | 250 | 110 | 130 | 130 | 170 | 215 | 165 | 13 | 52.5 | 30.2 | 76 | 25 | 158 | 210 | 138.5 | M8 |
| 0.75kw 1HP | 3-25 | 28 | 250 | 130 | 165 | 90 | 140 | 180 | 122 | 12 | 90.8 | 20.8 | 66 | 15 | 198 | 180 | 116 | M10 |
| | 30-120 | 32 | 288 | 130 | 165 | 130 | 170 | 215 | 160 | 13 | 90.8 | 30.2 | 76 | 25 | 198 | 210 | 138.5 | M10 |
| | 125-200 | 40 | 313 | 130 | 165 | 150 | 210 | 260 | 185 | 15 | 90.8 | 42.2 | 85 | 25 | 198 | 248 | 160 | M10 |
| 1.5kw 2HP | 3-25 | 32 | 288 | 130 | 165 | 130 | 170 | 260 | 160 | 13 | 90.8 | 30.2 | 76 | 25 | 198 | 210 | 138.5 | M10 |
| | 3-120 | 42 | 313 | 130 | 165 | 150 | 210 | 330 | 185 | 15 | 90.8 | 42.2 | 85 | 25 | 198 | 248 | 160 | M10 |
| 2.2kw 3HP | 3-60 | 40 | 320 | 180 | 215 | 150 | 210 | 260 | 185 | 15 | 95 | 42.2 | 85 | 25 | 250 | 248 | 160 | M12 |
| | 70-200 | 50 | 360 | 180 | 215 | 170 | 265 | 330 | 220 | 18 | 95 | 51.7 | 104 | 30 | 250 | 315 | 200 | M12 |
| 3.7kw 5HP | 3-10 | 40 | 320 | 180 | 215 | 150 | 210 | 260 | 185 | 15 | 95 | 42.2 | 85 | 25 | 250 | 248 | 160 | M12 |
| | 15-60 | 50 | 360 | 180 | 215 | 170 | 265 | 330 | 220 | 18 | 95 | 51.7 | 120 | 30 | 250 | 315 | 200 | M12 |

CVM 型立式入力法蘭齒輪減速機

CVM Vertical Type Flange Reducer Withor Motors



入力孔尺寸 Input Bore

| 功率 kw | 入力軸 BORE | 鍵槽 KEYWAY | |
|----------|-------------|--------------|------|
| | S1F7 | W1 | T1 |
| 0.2 | φ11 | 4 | 12.8 |
| 0.4 | φ14 | 5 | 16.3 |
| 0.75 | φ19 | 6 | 21.3 |
| 1.5 | φ24 | 8 | 21.8 |
| 2.2 | φ28 | 8 | 27.3 |
| 3.7 | φ28 | 8 | 31.3 |

出力軸尺寸 Output Shaft

| 型號 Size(S) | 出力軸 SHAET | 鍵槽 KEYWAY | | | | 鍵 KEY |
|---------------|--------------|--------------|----|------|----|----------|
| | Sh6 | P | W | T | Q | SPEC' |
| 18 | φ18 | 30 | 5 | 20.2 | 27 | 5×5×25 |
| 22 | φ22 | 40 | 7 | 25 | 35 | 7×7×35 |
| 28 | φ28 | 45 | 7 | 31.1 | 40 | 7×7×40 |
| 32 | φ32 | 55 | 10 | 35.5 | 50 | 10×8×50 |
| 40 | φ40 | 65 | 10 | 43.5 | 60 | 10×8×60 |
| 50 | φ50 | 80 | 14 | 54 | 75 | 14×9×75 |

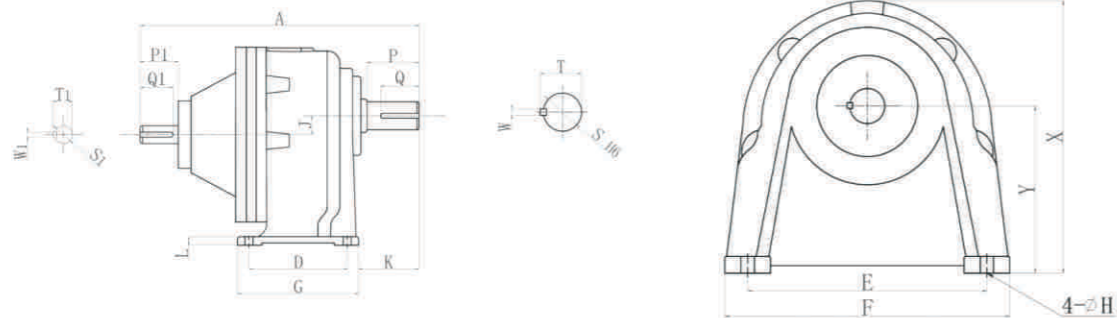
尺寸表 Dimensions (m/m)

| 功率 kw | 減速比 RATIO | 型號 Size(S) | A | B | C | D | E | F | G | H | I | J | K | L | N | Y | Z |
|----------------|--------------|---------------|-----|-----|-----|------|-----|-----|-----|----|-----|------|----|----|-----|---|-----|
| 0.2kw 1/4HP | 3-10 | *18 | 160 | 110 | 130 | 50 | 140 | 120 | 120 | 9 | 55 | 16 | 40 | 12 | 160 | 6 | M8 |
| | 15-90 | 22 | 195 | 110 | 130 | 148 | 185 | 175 | 165 | 11 | 55 | 17.5 | 48 | 12 | 160 | 3 | M8 |
| | 100-200 | 28 | 225 | 110 | 130 | 170 | 220 | 205 | 195 | 12 | 55 | 23 | 58 | 13 | 160 | 3 | M8 |
| 0.4kw 1/2HP | 3-10 | 22 | 195 | 110 | 130 | 148 | 185 | 175 | 165 | 11 | 55 | 17.5 | 48 | 12 | 160 | 3 | M8 |
| | 13-90 | 28 | 225 | 110 | 130 | 170 | 220 | 205 | 195 | 12 | 55 | 23 | 58 | 13 | 160 | 3 | M8 |
| | 100-200 | 32 | 225 | 110 | 130 | 185 | 255 | 248 | 225 | 15 | 55 | 30 | 65 | 16 | 160 | 3 | M8 |
| 0.75kw 1HP | 3-25 | 28 | 250 | 130 | 165 | 170 | 220 | 205 | 195 | 12 | 82 | 23 | 58 | 13 | 200 | 3 | M10 |
| | 30-120 | 32 | 285 | 130 | 165 | 185 | 255 | 245 | 225 | 15 | 82 | 30 | 65 | 16 | 200 | 3 | M10 |
| | 125-200 | 40 | 330 | 130 | 165 | 230 | 310 | 291 | 272 | 15 | 82 | 36 | 85 | 21 | 200 | 5 | M10 |
| 1.5kw 2HP | 3-25 | 32 | 285 | 130 | 165 | 185 | 255 | 248 | 225 | 15 | 82 | 30 | 65 | 16 | 200 | 3 | M10 |
| | 3-120 | 42 | 330 | 130 | 165 | 230 | 310 | 291 | 272 | 15 | 82 | 36 | 85 | 21 | 200 | 5 | M10 |
| 2.2kw 3HP | 3-60 | 40 | 355 | 180 | 215 | 2630 | 310 | 291 | 272 | 15 | 105 | 36 | 85 | 21 | 250 | 5 | M12 |
| | 70-200 | 50 | 410 | 180 | 215 | 280 | 390 | 372 | 342 | 18 | 105 | 51 | 90 | 25 | 250 | 5 | M12 |
| 3.7kw 5HP | 3-10 | 40 | 355 | 180 | 215 | 230 | 310 | 291 | 272 | 15 | 105 | 36 | 85 | 21 | 250 | 5 | M12 |
| | 15-60 | 50 | 410 | 180 | 215 | 280 | 390 | 372 | 372 | 18 | 105 | 51 | 92 | 25 | 250 | 5 | M12 |

備註: 1. 配合IEC馬達為主 Available For IEC Metric Motor

*屬於B型出力法蘭 *Belong To B Type Output Flange

CHD 型卧式雙軸齒輪減速機 CHM Double Shaft Type With Horizontal Mount



入力軸尺寸 Input Shaft

| 功率 kw | 入力軸 BORE | | 鍵槽 KEYWAY | | | 鍵 KEY |
|----------|-------------|----|--------------|------|----|----------|
| | S1 h6 | P1 | W1 | T1 | Q1 | SPEC' |
| 0.2 | 14 | 30 | 5 | 16 | 26 | 5×5×22 |
| 0.4 | 14 | 30 | 5 | 16 | 26 | 5×5×27 |
| 0.75 | 19 | 40 | 6 | 21.5 | 35 | 6×6×35 |
| 1.5 | 24 | 50 | 8 | 27 | 45 | 8×7×45 |
| 2.2 | 28 | 60 | 8 | 31 | 50 | 8×7×50 |
| 3.7 | 28 | 60 | 8 | 31 | 50 | 8×7×50 |

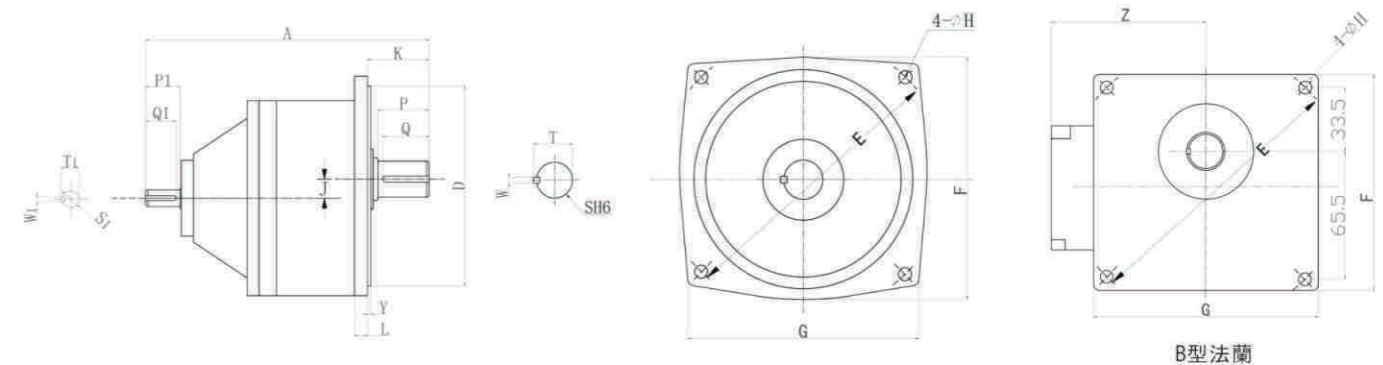
出力軸尺寸 Output Shaft

| 出力軸 SHAFT | 鍵槽 KEYWAY | | | 鍵 KEY | |
|--------------|--------------|----|------|----------|---------|
| | Sh6 | P | W | T | Q |
| φ18 | 30 | 5 | 20 | 25 | 5×5×25 |
| φ22 | 40 | 7 | 25 | 35 | 7×7×35 |
| φ28 | 45 | 7 | 31 | 40 | 7×7×40 |
| φ32 | 55 | 10 | 35.5 | 50 | 10×8×50 |
| φ40 | 65 | 10 | 43.5 | 60 | 10×8×60 |
| φ50 | 80 | 14 | 54 | 75 | 14×9×75 |

尺寸表 Dimensions (m/m)

| 功率 kw | 減速比 RATIO | 型號 | A | D | E | F | G | H | J | K | L | M | X | Y |
|----------------|--------------|----|-----|-----|-----|-----|-----|----|------|-----|----|-------|-----|-------|
| 0.1kw 1/8HP | 3-50 | 18 | 165 | 40 | 110 | 135 | 65 | 9 | 16 | 45 | 10 | 72.5 | 132 | 88.5 |
| | 60-200 | 22 | 200 | 65 | 130 | 160 | 90 | 11 | 18.2 | 56 | 15 | 80 | 152 | 97.5 |
| 0.2kw 1/4HP | 3-10 | 18 | 168 | 40 | 110 | 135 | 65 | 9 | 16 | 45 | 10 | 72.5 | 132 | 88.5 |
| | 15-90 | 22 | 200 | 65 | 130 | 160 | 90 | 11 | 18.2 | 56 | 15 | 80 | 152 | 97.5 |
| | 100-200 | 28 | 258 | 90 | 140 | 180 | 120 | 11 | 20.8 | 65 | 15 | 95.2 | 180 | 116 |
| 0.4kw 1/2HP | 3-10 | 22 | 207 | 65 | 130 | 160 | 90 | 11 | 18.2 | 56 | 15 | 80 | 152 | 97.5 |
| | 13-90 | 28 | 263 | 90 | 140 | 180 | 120 | 11 | 20.8 | 65 | 15 | 95.2 | 180 | 116 |
| | 100-200 | 32 | 300 | 130 | 170 | 215 | 160 | 13 | 30.2 | 76 | 25 | 108.5 | 210 | 138.5 |
| 0.75kw 1HP | 3-25 | 28 | 369 | 90 | 140 | 180 | 120 | 11 | 20.8 | 56 | 15 | 95.2 | 180 | 116 |
| | 30-120 | 32 | 310 | 130 | 170 | 215 | 160 | 13 | 30.2 | 76 | 25 | 108.5 | 210 | 160 |
| | 125-200 | 40 | 336 | 150 | 210 | 260 | 185 | 15 | 42.2 | 85 | 25 | 117.8 | 248 | 138.5 |
| 1.5kw 2HP | 3-25 | 32 | 320 | 130 | 170 | 215 | 160 | 13 | 30.2 | 76 | 25 | 108.5 | 210 | 160 |
| | 3-120 | 42 | 350 | 150 | 210 | 260 | 185 | 15 | 42.2 | 85 | 25 | 117.8 | 248 | 138.5 |
| 2.2kw 3HP | 3-60 | 40 | 360 | 150 | 210 | 260 | 185 | 15 | 42.2 | 85 | 25 | 117.8 | 248 | 160 |
| | 70-200 | 50 | 410 | 170 | 265 | 330 | 220 | 19 | 51.7 | 104 | 30 | 148.6 | 315 | 200 |
| 3.7kw 5HP | 3-10 | 40 | 360 | 150 | 210 | 260 | 185 | 15 | 42.2 | 85 | 25 | 117.8 | 248 | 160 |
| | 15-60 | 50 | 410 | 170 | 265 | 330 | 220 | 19 | 51.7 | 120 | 30 | 148.6 | 315 | 200 |

CVD 型立式雙軸齒輪減速機 CVD Double Shaft Type With Vertical Mount



入力軸尺寸 Input Shaft

| 功率 kw | 入力軸 BORE | | 鍵槽 KEYWAY | | | 鍵 KEY |
|----------|-------------|----|--------------|------|----|----------|
| | S1 h6 | P1 | W1 | T1 | Q1 | SPEC' |
| 0.2 | 14 | 30 | 5 | 16 | 26 | 5×5×22 |
| 0.4 | 14 | 30 | 5 | 16 | 26 | 5×5×27 |
| 0.75 | 19 | 40 | 6 | 21.5 | 35 | 6×6×35 |
| 1.5 | 24 | 50 | 8 | 27 | 45 | 8×7×45 |
| 2.2 | 28 | 55 | 8 | 31 | 50 | 8×7×50 |
| 3.7 | 28 | 55 | 8 | 31 | 50 | 8×7×50 |

出力軸尺寸 Output Shaft

| 出力軸 SHAFT | 鍵槽 KEYWAY | | | 鍵 KEY | |
|--------------|--------------|----|------|----------|---------|
| | Sh6 | P | W | T | Q |
| φ18 | 30 | 5 | 20 | 25 | 5×5×25 |
| φ22 | 40 | 7 | 25 | 35 | 7×7×35 |
| φ28 | 45 | 7 | 31 | 40 | 7×7×40 |
| φ32 | 55 | 10 | 35.5 | 50 | 10×8×50 |
| φ40 | 65 | 10 | 43.5 | 60 | 10×8×60 |
| φ50 | 80 | 14 | 54 | 75 | 14×9×75 |

尺寸表 Dimensions (m/m)

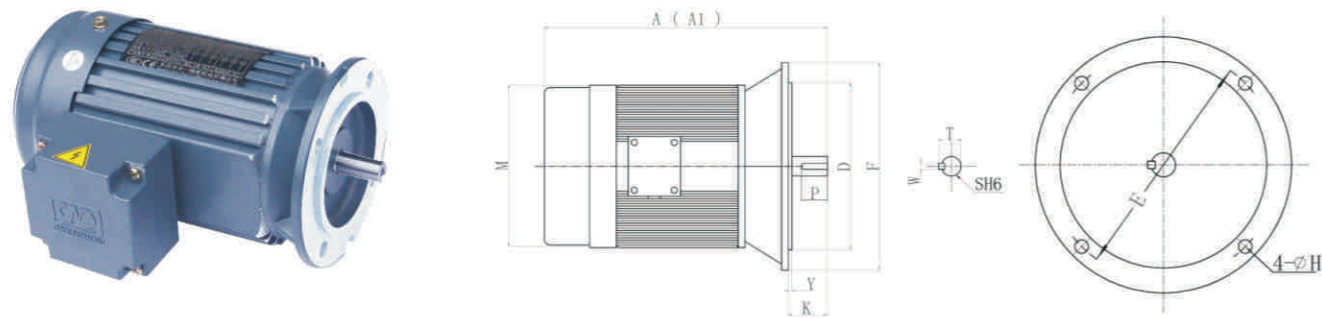
| 功率 kw | 減速比 RATIO | 型號 Size(S) | A | D | E | F | G | H | J | K | L | Y |
|----------------|--------------|---------------|-----|-----|-----|-----|-----|----|------|----|----|------|
| 0.1kw 1/8HP | 3-50 | *18 | 165 | 50 | 140 | 120 | 120 | 9 | 16 | 38 | 12 | 3 |
| | 60-200 | 22 | 200 | 148 | 185 | 170 | 156 | 11 | 18.2 | 49 | 12 | 4 |
| 0.2kw 1/4HP | 3-10 | *18 | 168 | 50 | 140 | 120 | 120 | 9 | 16 | 38 | 12 | 3 |
| | 15-90 | 22 | 200 | 148 | 185 | 170 | 156 | 11 | 18.2 | 49 | 12 | 5 |
| | 100-200 | 28 | 258 | 170 | 220 | 195 | 180 | 11 | 20.8 | 57 | 15 | 7 |
| 0.4kw 1/2HP | 3-10 | 22 | 207 | 148 | 185 | 170 | 156 | 11 | 18.2 | 49 | 12 | 6 |
| | 13-90 | 28 | 263 | 170 | 220 | 195 | 180 | 11 | 20.8 | 57 | 15 | 7 |
| | 100-200 | 32 | 300 | 185 | 255 | 237 | 215 | 13 | 30.2 | 67 | 17 | 12.4 |
| 0.75kw 1HP | 3-25 | 28 | 268 | 170 | 220 | 195 | 180 | 11 | 20.8 | 57 | 15 | 7 |
| | 30-120 | 32 | 310 | 185 | 255 | 237 | 215 | 13 | 30.2 | 67 | 17 | 14.4 |
| | 125-200 | 40 | 336 | 230 | 310 | 300 | 275 | 15 | 20.8 | 79 | 20 | 35 |
| 1.5kw 2HP | 3-25 | 32 | 320 | 185 | 255 | 237 | 215 | 13 | 30.2 | 67 | 17 | 14.4 |
| | 3-120 | 42 | 350 | 230 | 310 | 300 | 275 | 15 | 42.2 | 79 | 20 | 35 |
| 2.2kw 3HP | 3-60 | 40 | 360 | 230 | 310 | 300 | 275 | 15 | 42.2 | 79 | 20 | 35 |
| | 70-200 | 50 | 400 | 280 | 390 | 360 | 330 | 19 | 51.7 | 90 | 20 | 43 |
| 3.7kw 5HP | 3-10 | 40 | 360 | 230 | 310 | 300 | 275 | 15 | 42.2 | 79 | 20 | 35 |
| | 15-60 | 50 | 400 | 280 | 390 | 360 | 330 | 19 | 51.7 | 90 | 20 | 43 |

備註: *属于B型出力法蘭 *Belong To B Type Output Flange

B型法蘭

CV..S 立式標準IEC三相鋁殼馬達

CV..S IEC Vertical 3-Phase Aluminum Motor



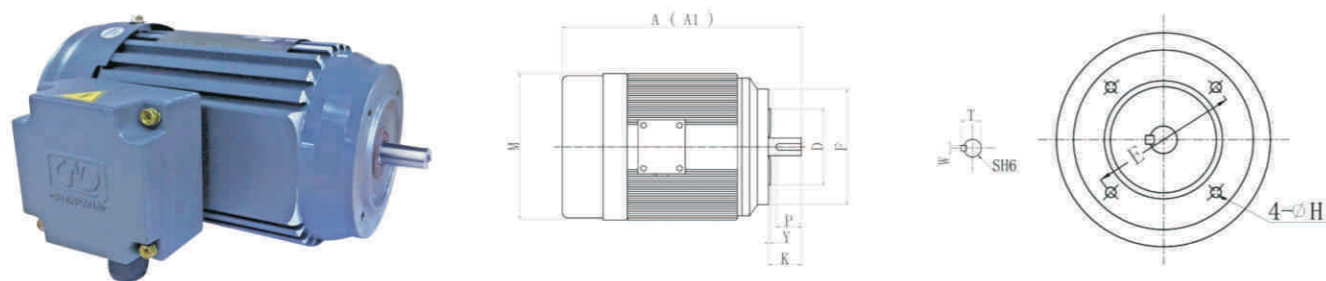
尺寸表 Dimensions (m/m)

| 輸出功率 kw | 型號 Size(S) | A | A1 | D | E | F | H | K | M | P | Sh6 | T | W | Y | 重量(KG) WEIGHT |
|------------|---------------|-----|-----|-----|-----|-----|------|----|-----|----|-----|------|---|-----|------------------|
| 1/8HP | - | 210 | 210 | 95 | 115 | 140 | 10 | 23 | 133 | 10 | 11 | 12.5 | 4 | 3.5 | 4.4 |
| 1/4HP | 63 | 240 | 240 | 95 | 115 | 140 | 10 | 23 | 133 | 10 | 11 | 12.5 | 4 | 3.5 | 5.9 |
| 1/2HP | 71 | 290 | 290 | 110 | 130 | 160 | 10 | 30 | 143 | 14 | 14 | 16 | 5 | 3.5 | 10.6 |
| 1HP | 80 | 285 | 285 | 130 | 165 | 200 | 12 | 40 | 167 | 25 | 19 | 21.5 | 6 | 3.5 | 13.0 |
| 2HP | 90L | 370 | 370 | 130 | 165 | 200 | 12 | 50 | 192 | 32 | 24 | 27 | 8 | 3.5 | 21.5 |
| 3HP | 100L | 410 | 410 | 180 | 215 | 250 | 14.5 | 60 | 220 | 40 | 28 | 31 | 8 | 4 | 28.0 |
| 5HP | 112L | 450 | 450 | 180 | 215 | 250 | 14.5 | 60 | 220 | 40 | 28 | 31 | 8 | 4 | 34.5 |

A1:三相鋁框馬達附剎車器 With 3-Phase Aluminum Brake Motor

CV..S 立式三相鋁殼馬達

CV..S Vertical 3-Phase Aluminum Motor



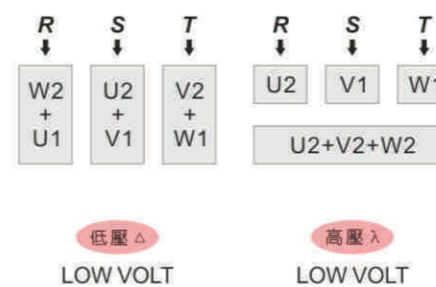
尺寸表 Dimensions (m/m)

| 輸出功率 kw | 型號 Size(S) | A | A1 | D | E | F | H | K | M | P | Sh6 | T | W | Y | 重量(KG) WEIGHT |
|------------|---------------|-----|-----|----|----|----|----|----|-----|----|-----|------|---|-----|------------------|
| 1/8HP | - | 210 | 210 | 60 | 75 | 90 | M5 | 23 | 133 | 10 | 11 | 12.5 | 4 | 1.8 | 4.2 |
| 1/4HP | 63 | 240 | 240 | 60 | 75 | 90 | M5 | 23 | 133 | 10 | 11 | 12.5 | 4 | 1.8 | 5.7 |
| 1/2HP | 71 | 290 | 290 | 60 | 75 | 90 | M6 | 30 | 143 | 14 | 14 | 16 | 5 | 2.5 | 8.2 |

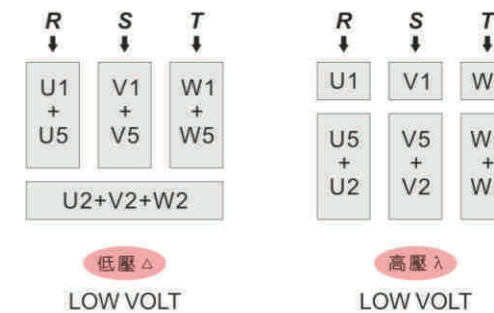
A1:三相鋁框馬達附剎車器 With 3-Phase Aluminum Brake Motor

三相馬達/剎車器結綫方式 Three Phase Motor W/Brake Unit Diagram

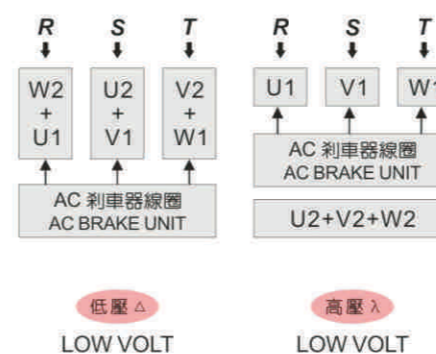
(a)三相六條馬達電源綫 FOR SIX WIRES



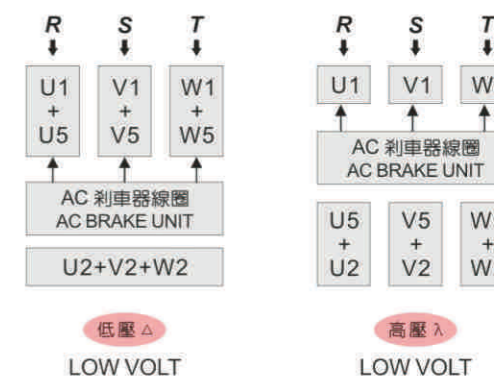
(b)三相九條馬達電源綫 FOR NINE WIRES



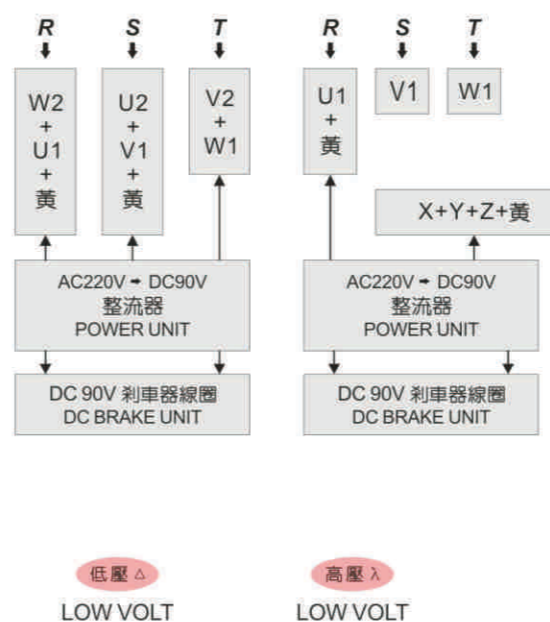
(c)三相六條馬達電源綫附交流剎車器 SIX WIRES W/AC BRAKE UNIT



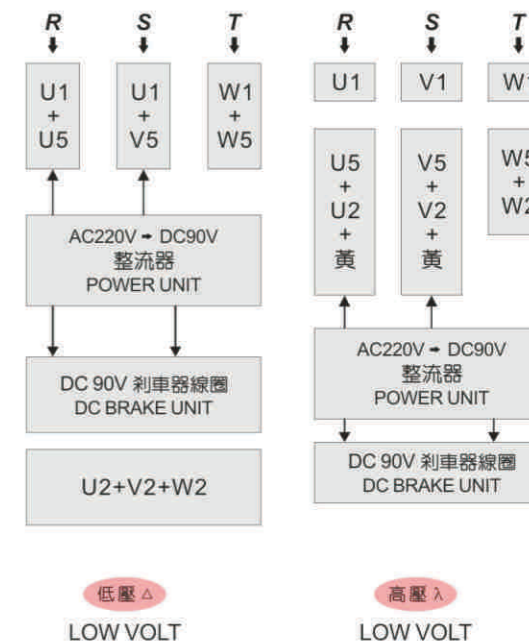
(d)三相九條馬達電源綫附交流剎車器 NINE WIRES W/AC BRAKE UNIT



(e)六條馬達電源綫附直流剎車器 SIX WIRES W/DC BRAKE UNIT



(f)九條馬達電源綫附直流剎車器 NINE WIRES W/DC BRAKE UNIT

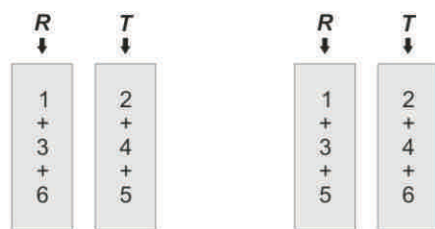


三相馬達/剎車器結綫方式 Single Phase Motor W/Brake Unit Diagram

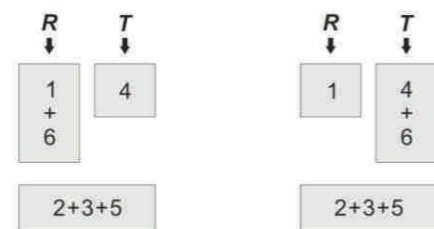
(a) 單相低壓 LOW VOLTAGE

(b) 單相高壓 HIGH VOLTAGE

正轉CLOCKWISE 反轉COUNT-CLOCKWISE



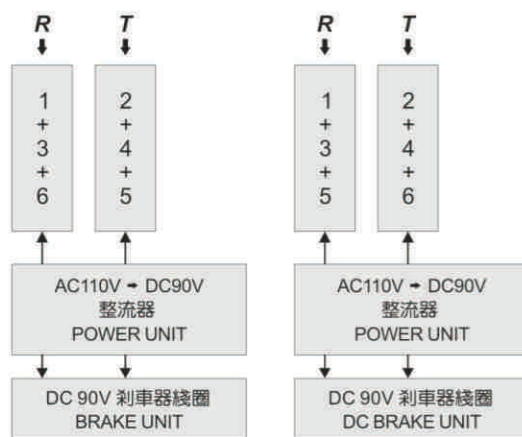
正轉CLOCKWISE 反轉COUNT-CLOCKWISE



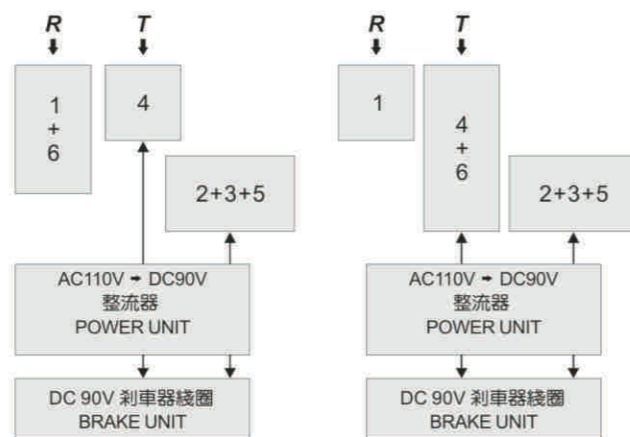
(a) 單相低壓110V附直流剎車器
LOW VOLTAGE 100V WITH DC BRAKE UNIT

(a) 單相高壓220V附直流剎車器
HLGH VOLTAGE 220V WITH DC BRAKE UNIT

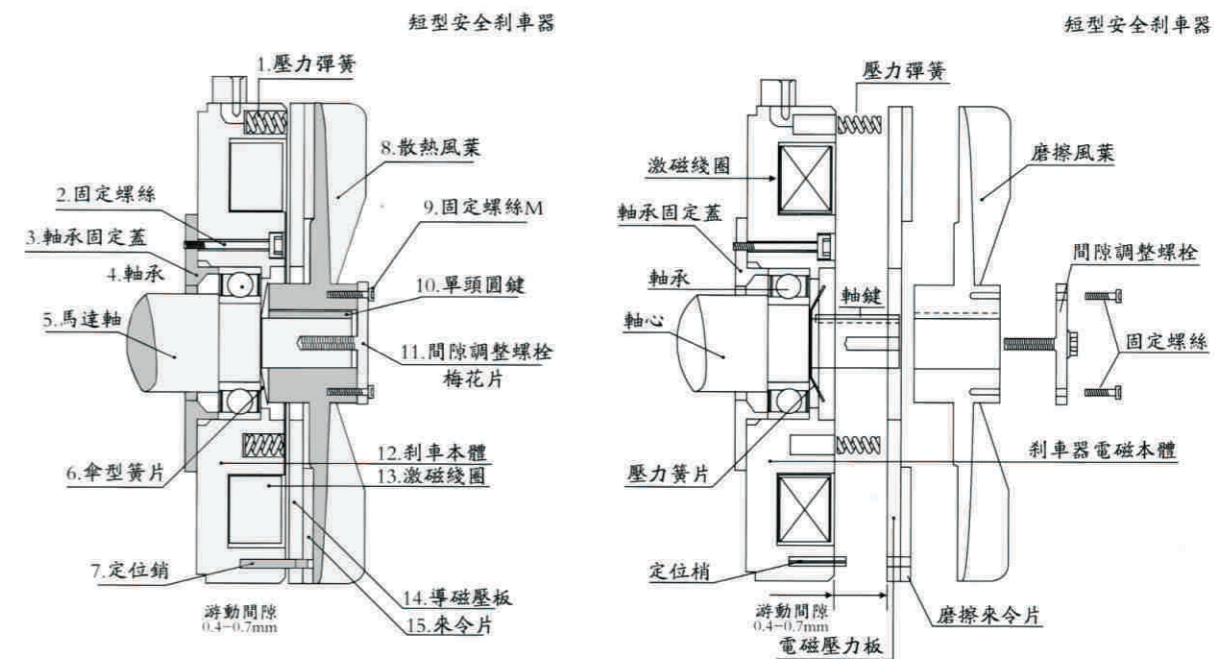
正轉CLOCKWISE 反轉COUNT-CLOCKWISE



正轉CLOCKWISE 反轉COUNT-CLOCKWISE



剎車零件分解圖 Brake Unit Section Diagram



| | | | |
|---|---------------------------|----|--------------------------|
| 1 | 壓力彈簧 Pressure Spring | 9 | 固定螺絲 Fixed Screw |
| 2 | 固定螺絲 Fixed Scerw | 10 | 固定鍵 Key |
| 3 | 軸承固定蓋 Fixed Bearing Plate | 11 | 調整螺絲 Gap Adjustment Bolt |
| 4 | 軸承 Bearing | 12 | 剎車本體 Brake Housing |
| 5 | 馬達軸 Motor Shaft | 13 | 激磁綫圈 Brake Coil |
| 6 | 傘形簧片 Disc Spring | 14 | 導磁壓板 Friction Plate |
| 7 | 定位銷 Fixed Pin | 15 | 來令片 Friction Brake Disc |
| 8 | 散熱風葉 Fan | | |

剎車間隙調整 Adjust Brake Clearance

- 請先移除固定螺絲
Please Remove Two Pieces Fixed Screws In Advance
- 每向右調整一格，其間距縮小0.07-0.10mm
Every Singel Position Adjustment, Brake Clearance Will Reduce 0.07-0.10mm

直流制動器故障排除 Trouble Shooting For DC Brake Unit

| 不良原因 DEFECTIVE REASON | 原因分析 POSSIBLE ANALYSIS | 解決方式 SOLUTION METHOD |
|----------------------------|----------------------------------|---------------------------------|
| 制動器不動作 NO ACTION | 未供電源 NO POWER INSIDE BRAKE | 供應電源 SUPPLY POWER |
| | 來令片磨壞 BRAKE DISC WORN OUT | 換新來令片 USE NEW BRAKE DISC |
| | 間隙過大 LARGE CLEARANCE | 調整間隙 ADJUST CLEARANCE |
| | 電源電壓不足 LOW VOLTAGE | 提供正確電壓 USE CORRECT VOLTAGE |
| | 電源供應損壞 POWER SUPPLY DAMAGE | 電源供應器換新 USE NEW POWER SUPPLY |
| | 異物入侵 DIRTY INSIDE | 清潔零件 CLEAN PARTS |
| | 使用電壓錯誤 WRONG VOLTAGE | 使用正確電壓 CORRECT VOLTAGE |
| | 結綫脫落 CONNECT WIRE LOST | 重新結綫 RE-CONNECT WIRE |
| | 來令片卡死 H BRAKE DISC LOCKED | 清潔零件 CLEAN PARTS |
| | 制動器線圈燒毀 BRAKE COIL BURNED-OUT | 制動器線圈換新 USE NEW BRAKE COIL |
| 制動器移動 OVER STOP | 來令片磨壞 BRAKE DISC WORN OUT | 換新來令片 USE NEW BRAKE DISC |
| | 間隙過大 LARGE CLEARANCE | 調整間隙 ADJUST CLEARANCE |
| | 來令片沾油漬 SURFACE W/OIL | 清潔來令片 CLEAN BRAKE DISC |
| | 負載過大 OVER LOADING | 重新設計 RE-DESIGN BRAKE UNIT |
| | 制動器表面歪斜 DISC SURFACE TWIST | 更換零件 USE NEW PARTS |
| | 下降衝量過大 HUGE MOMENTUM | 機構重新設計 SYSTEM RE-DESIGN |
| | 選用機型錯誤 SELECT WRONG TYPE | 選用正確機型 RE-SELECT UNIT |
| 環境溫度過高 HIGH TEMPERATURE | 檢討環境溫度 ADJUST TEMPERATURE | |

交流制動器規格 AC Brake Unit Section

| 輸出馬力 CAPACITY (HP) | 允許最高轉速 PERMIT MAX RPM | 制動制動力 TORQUE (KG-M) | 制動間隙 CLEARANCE (MM) | 來令片 BARKE DISC | | 重量 WEIGHT (KG) |
|--------------------------|--|---------------------------|---------------------------|-------------------|-----------|----------------------|
| | | | | 外徑 O/D | 內徑 I/D | |
| 1/4HP4P | 4000 | 0.15-0.30 | 0.4-1.2 | 83 | 48 | 1.6 |
| 1/2HP4P-1/4HP6P | 4000 | 0.15-0.40 | 0.4-1.2 | 112 | 65 | 4.0 |
| 1HP4P-1/2HP6P | 4000 | 0.25-0.70 | 0.5-1.3 | 130 | 68 | 4.3 |
| 2HP4P-1HP6P | 3600 | 0.42-1.50 | 0.5-1.4 | 140 | 78 | 5.8 |
| 3HP4P-2HP6P | 3600 | 0.92-2.00 | 0.5-1.4 | 150 | 78 | 7.0 |
| 5HP4P-3HP6P | 3600 | 1.80-3.50 | 0.5-1.5 | 170 | 86 | 9.0 |
| 7.5HP4P-5HP6P | 3600 | 2.80-5.50 | 0.5-1.7 | 170 | 86 | 12.5 |
| 10HP4P-7.5HP6P | 3400 | 4.00-7.00 | 0.6-1.7 | 190 | 105 | 15.0 |
| 15HP4P-10HP6P | 3400 | 6.00-11.00 | 0.6-1.7 | 200 | 110 | 23.6 |
| 20HP4P-15HP6P | 3200 | 8.00-13.000 | 0.6-1.8 | 240 | 125 | 31.5 |
| 25HP4P-20HP6P | 2600 | 15.00-23.00 | 0.8-2.0 | 300 | 145 | 54.5 |
| 30HP4P-25HP6P | 2600 | 15.00-23.00 | 0.8-2.0 | 300 | 145 | 54.5 |
| 40HP4P-30HP6P | 2600 | 15.00-23.00 | 0.8-2.0 | 300 | 145 | 54.5 |
| 備註 REMARK | 1.AC制動器安裝尺寸較長於原有標準馬達 AC BRAKE UNIT LENGTH LONGER THAN ORIGINAL STANDARD MOTOR | | | | | |
| | 2.適用電壓 AVAILABLE VOLTAGE 200V,380V,400V,415V,440V,460V | | | | | |
| | 3.可接受特殊定制AC制動器及專用制動機型 AVAILABLE FOR SPECIAL BRAKE DESIGN | | | | | |
| | 4.BA07-BA04為複板式制動器 DOUBLE BRAKE DISC SYSTEM FOR 7.5HP4P-40HP4P | | | | | |

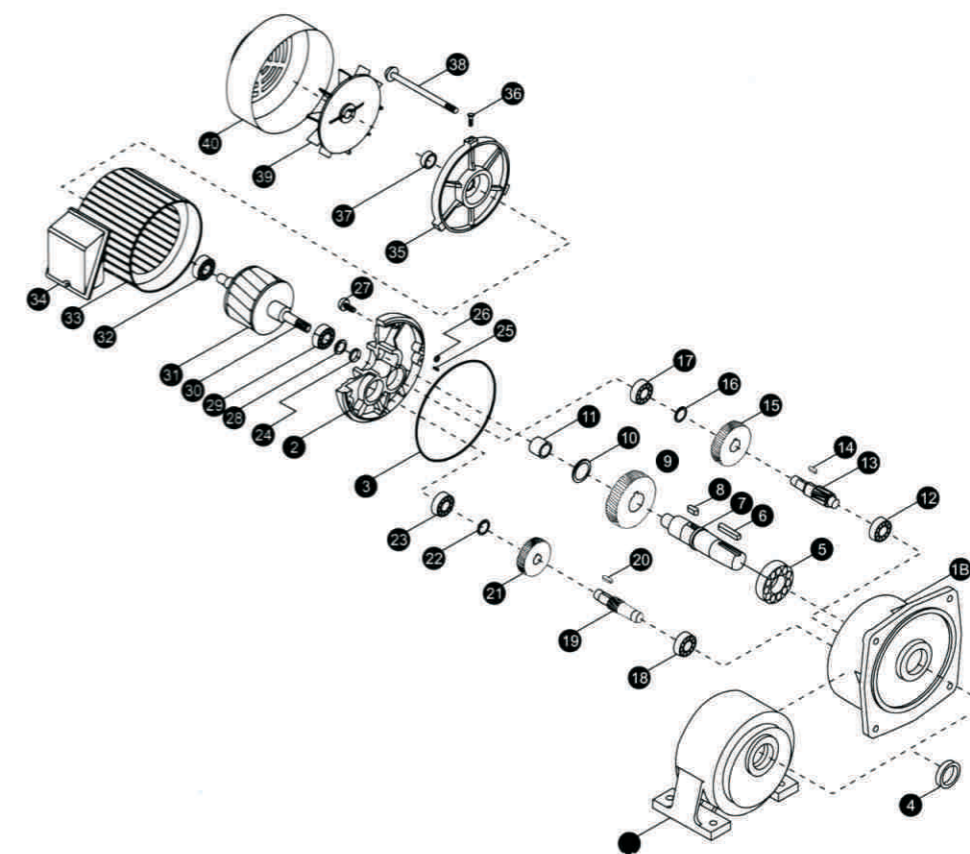
減速機故障排除 Trouble Shooting For Gearmotor

| 不良原因 DEFECTIVE REASON | 原因分析 POSSIBLE ANALYSIS | 解決方式 SOLUTION METHOD |
|---------------------------|---|---|
| 噪音 NOISE | 齒輪敲擊聲 KNOCKING | 齒輪表面受傷 HURT GEAR SURFACE 更換受傷齒輪組 REPLACE GEAR SET |
| | 連續性雜音 KNOCKING | 培林損壞 BAD BEARING 更換損壞培林 REPLACE BEARING |
| | 周期性雜音 PERIODICALLY | 異物附着齒面 PARTICLE INSIDE 檢查齒輪齒面 CHECK GEAR |
| | 嘶嘶聲 NEIGH | 油量不足 LACK OF LUBRICANT 添加潤滑油 FILL WITH LUB-OIL |
| | 斷續性雜音 INTERMITTENTLY | 潤滑油不潔 DIRTY LUBRICANT 更換新潤滑油 REPLACE LUBRICANT |
| 振動 VIBRATING | 固定底座振動 MOUNTING BASE MOVEMENT | 安裝平面歪斜 BAD SURFACE MOUNTING 重新調整固定底座 RE-ADJUST MOUNTING BASE |
| | 出力軸振動 OUTPUT SHAFT MOVING | 培林損壞 BAD BEARING 更換損壞培林 REPLACE BEARING |
| | 內部齒輪零件振動 INSIDE GEAR PARTS MOVEMENT | 齒輪受傷 GEAR WOUNDED 更換受傷齒輪 REPLACE WOUNDED GEAR |
| 本體振動 HOUSING VIBRATING | 齒輪組安裝不良 BAD GEAR ASSEMBLY 重新調整齒輪組 RE-ADJUST GEAR SET | |
| 漏油 LEAKAGE | 油封漏油 OIL SEAL LEAKAGE | 油封硬化 OIL SEAL TOO HARDEN 更換損壞油封 REPLACE WOUNDED OIL SEAL |
| | 本體漏油 HOUSING LEAKAGE | 本體有砂孔 HOUSING HAD SAND HOLE 更換砂孔本體 REPLACE SAND HOLE HOUSING |
| | 結合面漏油 HONNECT SURFAXE LEAKAGE | O-型環損壞 O-RING BROKEN 更換損壞O-型環 REPLACE SWOUNDED O-RING |
| 過熱 OVER-HEATING | 油封 BAD OIL SEAL | 油封太緊 OIL SEAL TOO TIGHT 更換過緊油封 REPLACE TIGHTEN OIL SEAL |
| | 本體過熱 HOUSING TOO HEAT | 過負載 OVER LOAD RUNNING 重新計算負載馬力 RE-CALCULATE LOADING |
| | 缺潤滑油 LESS LUBRICANT | 油量不足 LACK OF LUBRICANT 加入潤滑油 FILL WITH LUBRICANT |
| | 馬達過熱 MOTOR TOO HEAT | 馬達不良 DEFECTIVE MOTOR 更換新馬達 REPLACE NEW MOTOR |

交流制動器規格 AC Brake Unit Section

| 輸出馬力 CAPACITY (HP) | 制動制動力 TORQUE (KG-M) | 制動間隙 CHEAR- ANCE (MM) | 制動時間 BRAKE (SEC) | 釋放時間 RELEASE (SEC) | 制動器線圈 BRAKE COIL | | | 重量 WEIGHT (KG) |
|--------------------------|--|--------------------------------|------------------------|--------------------------|-------------------------|------------------|------------------|----------------------|
| | | | | | 電壓 VOLTAGE (DC-V) | 電流 AMP (A) | 阻抗 OHM (Ω) | |
| 1/4HP4P | 0.20 | 0.2-0.60 | 0.22 | 0.12 | 95±10% | 0.17 | 565 | 3.5 |
| 1/2HP4P | 0.40 | 0.2-0.60 | 0.24 | 0.13 | 95±10% | 0.28 | 336 | 4.0 |
| 1HP4P | 0.80 | 0.3-0.65 | 0.22 | 0.12 | 95±10% | 0.41 | 233 | 5.0 |
| 2HP4P | 1.50 | 0.3-0.65 | 0.28 | 0.15 | 95±10% | 0.57 | 167 | 6.0 |
| 3HP4P | 2.20 | 0.4-0.70 | 0.28 | 0.18 | 95±10% | 0.73 | 130 | 8.0 |
| 5HP4P | 4.50 | 0.4-0.70 | 0.28 | 0.18 | 95±10% | 0.73 | 130 | 10.0 |
| 7.5HP4P | 5.60 | 0.5-0.90 | 0.28 | 0.21 | 95±10% | 1.02 | 93 | 12.5 |
| 備註 REMARK | 1.直流制動器安裝尺寸相同於原有標準馬達 DC BRAKE UNIT LENGTH SAME AS ORIGINAL STANDARD MOTOR | | | | | | | |
| | 2.採用非石棉制動器來令片材質 ADOPT MATERIAL WITH NON-ASBESTOS BRAKE DISC | | | | | | | |
| | 3.適用電壓 AVAILABLE VOLTAGE 200V,380V,400V,415V,440V,460V | | | | | | | |
| | 4.制動器電壓 DC90V BRAKE COIL VOLTAGE:DC90V | | | | | | | |
| | 5.選用配件 OPTIONAL DESIGN a.可附加手動釋放制動器裝置 AVAILABLE FOR MANUAL RELEASE BRAKE SYSTEM b.可接受特殊定制DC制動器及專用制動機型 AVAILABLE FOR SPECIAL BRAKE DESIGN | | | | | | | |

| 國名 | 頻率 | 單相 | 三相 | 國名 | 頻率 | 單相 | 三相 |
|----------------------|----------|----------------|--------------------|-----------------------|----------|-------------|--------------------|
| 阿根廷 Argentina | 50 | 220 | 220/380 | 日本 Japania | 50/60 | 100/200 | 200 |
| 澳洲 Australia | 50 | 240 | 240/415 | 科威特 Kuwait | 50 | 100/200 | 200 |
| 奧地利 Austria | 50 | 220 | 220/380 | 黎巴嫩 Lebanon | 50 | 100/220 | 220/380 |
| 孟加拉 Bangladesh | 50 | 230 | 230/400 | 馬來西亞 Malaysia | 50 | 115/240 | 240/415 400/400 |
| 比利時 Belgium | 50 | 127/220 | 220/380 | 荷蘭 Netherlands | 50 | 110/220 | 220/230 |
| 巴西 Brazil | 50 60 | 110/220 127 | 220/380 | 紐西蘭 New Zealand | 50 | 230 | 230/400 |
| 緬甸 Burma | 50 | 230 | 230/440 | 巴基斯坦 Pakistan | 50 | 230 | 220/380 230/400 |
| 高棉 Cambodia | 50 | 120 | 220/380 | 沙烏地阿拉伯 Saudi-arabi | 50 60 | 127/220 | 220/380 230/400 |
| 智利 Chile | 50 | 220 | 220/380 | 敘利亞 Syris | 50 | 115/200 | 220/380 |
| 中國 China | 50 | 220 | 220/380 | 新加坡 Singapore | 50 | 115/230 | 230/400 |
| 捷克 Czechoslovakia | 50 | 120/220 | 220/380 | 南非 South-africa | 50 | 220/230 | 220/380 230/400 |
| 丹麥 Denmark | 50 | 220 | 220/380 | 西班牙 Spain | 50 | 127/220 | 220/380 |
| 埃及 Egypt | 50 | 220 | 220/380 | 瑞士 Switzerland | 50 | 220 | 220/380 |
| 芬蘭 Finland | 50 | 220 | 220/380 | 泰國 Thailand | 50 | 110/220 | 220/380 |
| 法國 France | 50 | 115/127/220 | 220/380 | 土耳其 Turkey | 50 | 127/220/230 | 220/380 |
| 德國 Germany | 50 | 110/220 | 220/380 | 英國 U.K. | 50 | 240 | 240/415 |
| 希臘 Greece | 50 | 220 | 220/380 | 越南 Viet-Num | 50 | 127/220 | 220/380 |
| 香港 Hong Kong | 50 | 110/200/230 | 220/380 | 加拿大 Canada | 60 | 110/120 | 220/240/480 |
| 匈牙利 Hungary | 50 | 220 | 220/380 | 哥倫比亞 Colombia | 60 | 110/220 | 220/380 |
| 冰島 Iceland | 50 | 220 | 220/380 | 古巴 Cuba | 60 | 115/120 | 240 |
| 印度 India | 50 | 230 | 220/380 230/400 | 厄瓜多爾 Ecuador | 60 | 120/127 | 208/220 |
| 印尼 Indonesia | 50 | 127/200 | 220/380 | 韓國 Korea | 60 | 100/200 | 200 |
| 伊拉克 Irap | 50 | 220 | 220/380 | 秘魯 Peru | 60 | 110/220 | 220 |
| 以色列 Israel | 50 | 230 | 230/400 | 菲律賓 Philippines | 60 | 110/220 | 220/400 |
| 意大利 Italy | 50 | 127/220 | 220/380 | 美國 U.S.A. | 60 | 120/240 | 240/480 |



| 2斷/3斷式結構剖示圖 2 STAGES/3 STAGES SECTION DIAGRAM | | | | | |
|--|-----------------------------------|----|-----------------------------------|----|------------------------------|
| 項次 | 零件名稱 | 項次 | 零件名稱 | 項次 | 零件名稱 |
| 1A | 臥式本體 HORIZONTAL HOUSING | 14 | 三段小齒軸鍵 KEY-3" STAGE PINION | 28 | 波浪彈簧 WAVE SPRING |
| 1B | 立式本體 VERTICAL HOUSING | 15 | 二段大齒輪 GEAR-2" STAGE | 29 | 馬達軸培林 BEARING-MOTOR SHAFT |
| 2 | 馬達前蓋 HOUSING COVER | 16 | C-扣環 SNAP RING | 30 | 馬達齒軸 MOTOR SHAFT |
| 3 | O型環 O-RING | 17 | 三段齒軸培林 BEARING-3" STAGE PINION | 31 | 轉子 ROTOR |
| 4 | 出力軸油封 OIL SEAL-OUTPUT SHAFT | 18 | 二段齒軸培林 BEARING-2" STAGE PINION | 32 | 馬達軸培林 BEARING-MOTOR SHAFT |
| 5 | 出力軸培林 BEARING-OUTPUT SHAFT | 19 | 二段小齒軸 PINION-2" STAGE | 33 | 線圈總成 COIL ASSEMBLY |
| 6 | 出力軸鍵 KEY-OUTPUT SHAFT | 20 | 二段小齒軸鍵 KEY-2" STAGE | 34 | 鋁接線盒 WIRE BOX |
| 7 | 出力軸 OUTPUT SHAFT | 21 | 一段大齒輪 GEAR-1" STAGE | 35 | 馬達后蓋 REAR COVER-MOTOR |
| 8 | 三段小齒軸鍵 KEY-3" STAGE | 22 | C-扣環 SNAP RING | 36 | 風罩螺絲 SCREW-FAN COVER |
| 9 | 三段大齒輪 GEAR-3" STAGE | 23 | 二段齒軸培林 BEARING-2" STAGE PINION | 37 | 后蓋油封 OIL SEAL-REARCOVER |
| 10 | C-扣環 SNAP RING | 24 | 入力側油封 OIL SEAL-MOTOR SHAFT | 38 | 馬達螺栓 BOLT-MOTOR |
| 11 | 出力軸自潤軸承 OILLESS BEARING | 25 | 定位銷 PIN | 39 | 風葉 FAN |
| 12 | 二段齒軸培林 BEARING-2" STAGE PINION | 26 | O型環 O-RING | 40 | 風罩 FAN COVER-MOTOR |
| 13 | 三段小齒軸 PINION-3" STAGE | 27 | 內六角螺絲 HEX-HEAD SCREW | | |

各國頻壓對照表

減速機組合分解示意圖