
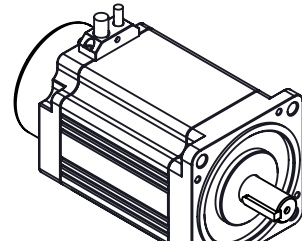
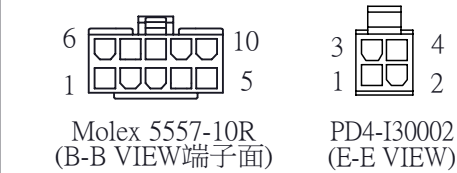



| 馬達特性規格 (Motor Performance Spec.) |                       | 換相時序圖 (Commutation Sequence )<br>8P / from motor bottom, C.C.W   |          |            |                    |          |  | Molex 5557-10R 腳位定義 ( Pin Function ) |               |            |   | R型端子 線色定義 (Pin Function) |           |                                 |
|----------------------------------|-----------------------|--|----------|------------|--------------------|----------|--|--------------------------------------|---------------|------------|---|--------------------------|-----------|---------------------------------|
| 額定電壓 (Rated Voltage )            | 48 VDC                | 馬達 (Motor Cable)   |          |            | 霍爾信號 (Hall Signal) |          |  | PIN                                  | 功能 (Function) | 線色 (Color) | 線規 (Reamrk)   | 功能(Function)             | 線色(Color) | 線規(Remark)                      |
| 無載轉速 (No Load Speed)             | 4150 r/min            |  |          |            |                    |          |  | 1                                    | OT-           | 灰(Gray)    | UL 2464 Cable,<br>80℃, 300V<br>(0.25^2x7C)<br>(white, brown,<br>green, yellow,<br>gray, pink, blue)<br>/ braid / PVC /<br>Flex Sig. Cable | U                        | 紅(Red)    | 105℃, 300V,<br>12AWGx3C.<br>耐油曲 |
| 無載電流 (No Load Current)           | 2.5 A                 | 2  | Hall_Gnd | 綠(Green)   | V                  | 白(White) |  |                                      |               |            |   |                          |           |                                 |
| 轉向 (Direction of Rotation)       | C.W.                  | 3  | Null     | X          | W                  | 黑(Black) |  |                                      |               |            |   |                          |           |                                 |
| 額定功率 (Rated Power)               | 1000 W                | 4  | Hall_Vcc | 黃(Yellow)  |                    |          |  |                                      |               |            |   |                          |           |                                 |
| 額定轉矩 (Rated Torque)              | 3.18 N-m              | 5  | Shield   | 隔離網(Braid) |                    |          |  |                                      |               |            |   |                          |           |                                 |
| 起動轉矩 (Starting Torque)           | 6.36 N-m              | 6  | OT+      | 白(White)   |                    |          |  |                                      |               |            |   |                          |           |                                 |
| 額定輸入電流 (Rated Input Current)     | 25.3 A                | 7  | S1       | 棕(Brown)   |                    |          |  |                                      |               |            |   |                          |           |                                 |
| 額定相電流 (Rated Phase Current)      | 24.1 A                | 8  | S2       | 粉(Pink)    |                    |          |  |                                      |               |            |   |                          |           |                                 |
| 額定轉速 (Rated Speed)               | 3000 r/min            | 9  | S3       | 藍(Blue)    |                    |          |  |                                      |               |            |   |                          |           |                                 |
| 線間電阻 (L-L Resistance)            | 81 mΩ                 | 10   | Null     | X          |                    |          |  |                                      |               |            |   |                          |           |                                 |
| 耐壓測試(Hi-Pot)                     | 1000 VAC/ 1mA / 1sec. | <div>( 6.4)R型絕緣端子 (RF5.5-6S)<br/>加配線標示(白)<br/>(U)(V)(W)三種</div>  |          |            |                    |          |  |                                      |               |            |   |                          |           |                                 |
| 絕緣測試(Insulation Test)            | 500 VDC / 50 MΩ min.  |  |          |            |                    |          |  |                                      |               |            |   |                          |           |                                 |
| 反電動勢 (Back Emf)                  | 8.37 V/krpm           |  |          |            |                    |          |  |                                      |               |            |   |                          |           |                                 |



| 電磁剎車規格 (Electromagetic Brake Spec.) |                     |
|-------------------------------------|---------------------|
| 電壓 (Voltage)                        | 48 VDC              |
| 功率 (Power)                          | 12.5 W (@ Max.150℃) |
| 靜摩擦轉矩 (Static Friction Torque)      | 6.0 N-m             |

| PD4-I30002 腳位定義 ( Pin Function ) |              |           |   |
|----------------------------------|--------------|-----------|---|
| PIN                              | 功能(Function) | 線色(Color) | 線規(Remark)                                    |
| 1                                | Mbrake-      | 黑(Black)  | UL 2517,105℃,<br>300V /<br>22AWGx4C.<br>耐油曲芯線 |
| 2                                | Null         | X         |   |
| 3                                | Mbrake+      | 白(White)  |   |
| 4                                | Null         | X         |   |



|           |   |     |         |       |       |      |            |  |           |  |
|-----------|---|-----|---------|-------|-------|------|------------|--|-----------|--|
| 標題(TITLE) | BLDC Motor / Brake Round Keyway Shaft           |     |         |       |       |      |            | NOTES  |           | THIRD ANGLE<br>PROJECTION<br> |
| 型號(MODEL) | BVM6N1K030MA                                    |     |         |       |       |      |            | TOLERANCE TO BE FOLLOWINGS UNLESS<br>OTHERWISE BE SPECIFIED: |           |  |
| 規格(SPEC.) | BV系列, 48VDC, 1000W, 3000RPM<br>無刷馬達, 附電磁剎車, 鍵槽軸 | 2.0 | ESD-196 | Regan |       | Gear | 2018/06/15 | LENGTH (mm)  | TOLERANCE | UNIT: mm   |
|           |   |     |         |       |       |      |            | 0~30 (included)  | ±0.20mm   | SHEET NO: 1/1  |
|           |   | 1.0 | ESD-171 | Regan |       | Gear | 2018/3/28  | 30~120 (included)  | ±0.30mm   |  |
|           |   |     |         |       |       |      |            | 120~315 (included)   | ±0.50mm   |  |
| DWG NO.   | SD-02-S0259                                     | VER | ECO NO. | DRWN  | CH'KD | APPR | DATE       | 315~1000 (included)  | ±0.80mm   | SIZE: A4   |
|           |   |     |         |       |       |      |            | OVER 1000  | ±1.20mm   |  |

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