



| SPECIFICATION | | CONNECTION | DELTA | INPUT CONNECTION | | PERMISSIBLE RADIAL+AXIAL FORCE | | X1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------------|------------|-------|---|--------------------|--------------------------------|-----------|--|----------|-----------------------------|----------|----|-----|----|--------------|----|---------------|----|---------------|----|---------------|----|-----------------------------|----|-----------------------|----|-----------------------|----|-----|----|---------------------|----|---------------------------|----|-------------------------|----|------------------------------|----|----------------------------|----|--------------------------|----|------------------------|
| NO. OF POL./PHASE | 8/3 | | | | | | | <table border="1"> <thead> <tr> <th>Pin No.</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>a1</td><td>GND</td></tr> <tr><td>a2</td><td>+UB (12-24V)</td></tr> <tr><td>a3</td><td>INPUT 1 (24V)</td></tr> <tr><td>a4</td><td>INPUT 2 (24V)</td></tr> <tr><td>a5</td><td>INPUT 3 (24V)</td></tr> <tr><td>a6</td><td>ANALOG INPUT (0-10V/0-20mA)</td></tr> <tr><td>a7</td><td>OUTPUT 1 (open drain)</td></tr> <tr><td>a8</td><td>OUTPUT 2 (open drain)</td></tr> <tr><td>b1</td><td>GND</td></tr> <tr><td>b2</td><td>+10V VOLTAGE SUPPLY</td></tr> <tr><td>b3</td><td>-INPUT 4/-ENABLE (5V/24V)</td></tr> <tr><td>b4</td><td>INPUT 4/ENABLE (5V/24V)</td></tr> <tr><td>b5</td><td>-INPUT 5/-DIRECTION (5V/24V)</td></tr> <tr><td>b6</td><td>INPUT 5/DIRECTION (5V/24V)</td></tr> <tr><td>b7</td><td>-INPUT 6/-CLOCK (5V/24V)</td></tr> <tr><td>b8</td><td>INPUT 6/CLOCK (5V/24V)</td></tr> </tbody> </table> | | Pin No. | Function | a1 | GND | a2 | +UB (12-24V) | a3 | INPUT 1 (24V) | a4 | INPUT 2 (24V) | a5 | INPUT 3 (24V) | a6 | ANALOG INPUT (0-10V/0-20mA) | a7 | OUTPUT 1 (open drain) | a8 | OUTPUT 2 (open drain) | b1 | GND | b2 | +10V VOLTAGE SUPPLY | b3 | -INPUT 4/-ENABLE (5V/24V) | b4 | INPUT 4/ENABLE (5V/24V) | b5 | -INPUT 5/-DIRECTION (5V/24V) | b6 | INPUT 5/DIRECTION (5V/24V) | b7 | -INPUT 6/-CLOCK (5V/24V) | b8 | INPUT 6/CLOCK (5V/24V) |
| Pin No. | Function | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a1 | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a2 | +UB (12-24V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a3 | INPUT 1 (24V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a4 | INPUT 2 (24V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a5 | INPUT 3 (24V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a6 | ANALOG INPUT (0-10V/0-20mA) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a7 | OUTPUT 1 (open drain) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a8 | OUTPUT 2 (open drain) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b1 | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b2 | +10V VOLTAGE SUPPLY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b3 | -INPUT 4/-ENABLE (5V/24V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b4 | INPUT 4/ENABLE (5V/24V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b5 | -INPUT 5/-DIRECTION (5V/24V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b6 | INPUT 5/DIRECTION (5V/24V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b7 | -INPUT 6/-CLOCK (5V/24V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b8 | INPUT 6/CLOCK (5V/24V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VOLTAGE RATED (VDC) | 24 | | | | | AXIAL-FORCE Fa (N) | | Fa=10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CURRENT RATED/PEAK (AMP) | 3.47/10.6 | | | | | DISTANCE a (mm) | | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TORQUE RATED/PEAK (Nm) | 0.125/0.38 | | | | | RADIAL-FORCE Fr (N) | | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| POWER RATED (W) | 52.5 | | | | | | | AXIAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPEED RATED/NO LOAD (RPM) | 4000/6000 | | | | | | | RADIAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROTOR INERTIA (Kg-m²) | 4.8x10 ⁻⁶ | | | | | SHAFT PLAY (mm) | | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEIGHT (Kg) | 0.48 | | | | | AT LOAD MAX: (N) | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERTEMPERATURE PROTECTION (ELECTRONICS): 75°C | | | | | | | | 4.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AMBIENT TEMPERATURE -10~ 50°C [14°F ~ 122°F] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INSULATION CLASS B 130° [266°F] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Nanotec [®] PLUG & DRIVE | | | APVD | <i>X.W.</i> | 01.07.15 | PLUG&DRIVE MOTOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | - | 14.01.16 | A.S. | | | | CHKD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | - | 18.11.15 | A.S. | Surface specification | General tolerances | Work piece edge | DRN | A.S. | 01.07.15 | DWG.NO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REV | DESCRIPTION | DATE | DRN | DIN ISO 1302 | DIN ISO 2768- cH | DIN ISO 13715 | SIGNATURE | DATE | | PD2-CB42M024040-E-01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |