

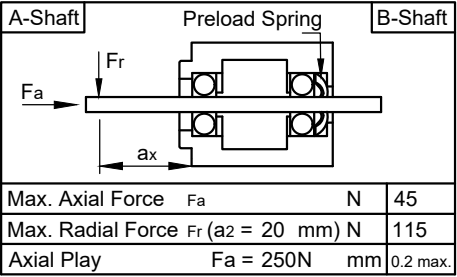
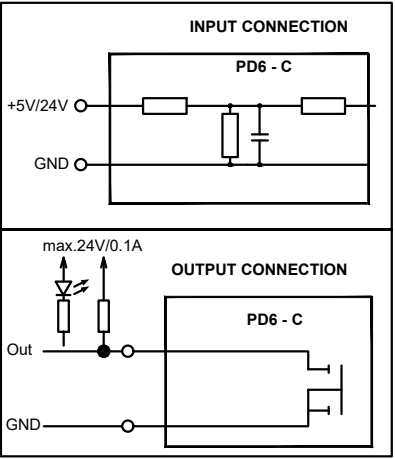
| X4/ X5 CANopen IN/OUT |                 |
|-----------------------|-----------------|
| Pin No.               | Function        |
| 1                     | CAN_H           |
| 2                     | CAN_L           |
| 3                     | CAN_GND         |
| 4                     | n.c.            |
| 5                     | n.c.            |
| 6                     | CAN_SHLD        |
| 7                     | GND             |
| 8                     | +UB Logic (24V) |

| X1 Power Connector |          |
|--------------------|----------|
| Pin No.            | Function |
| 1                  | +UB      |
| 2                  | GND      |

👉 glue the front bearing with Loctite326

| MOTOR SPECIFICATION                      |                   |                       |
|--|-------------------|-----------------------|
| No. of Poles                             | 8                 |                       |
| Rated Voltage                            | V DC              | 48                    |
| Current - Rated / No Load / Peak         | A                 | 14 / 0.7 / 40         |
| Resistance Line to Line (20°C) ±15%      | Ω                 | 0.1                   |
| Inductance Line to Line (1 kHz) ±20%     | mH                | 0.6                   |
| Torque - Rated / Peak                    | Nm                | 1.7 / 5.0             |
| Torque Constant                          | Nm/A              | 0.12                  |
| Speed - No Load / Rated                  | ±10% rpm          | 4250 / 3000           |
| Encoder Resolution                       | cpr               | 1024                  |
| Encoder Resolution (cpr with quadrature) | ppr               | 4096                  |
| Encoder Signal Type                      | incremental       |                       |
| Rotor Inertia                            | kg m <sup>2</sup> | 102 x10 <sup>-6</sup> |


| GENERAL MOTOR SPECIFICATION                    |         |            |
|--|---------|------------|
| Interface                                      | CANOPEN |            |
| Ambient Temperature                            | °C      | -10 ... 50 |
| Max. Ambient Humidity (non condensing)         | %       | 85         |
| Insulation Class                               | B       |            |
| Insulation Resistance                          | MΩ      | 100        |
| Dielectric Strength (for 1 min - coil to case) | V AC    | 500        |



| X2                                |                                   | IO Connector           |  |
|-----------------------------------|-----------------------------------|------------------------|--|
| Pin No.                           | Function                          |                        |  |
| 1                                 | +10V VOLTAGE SUPPLY (max. 200 mA) |                        |  |
| 2                                 | Input 1 / Enable (+5V/+24V)       | -Input 1 / -Enable*    |  |
| 3                                 | Input 2 / Direction (+5V/+24V)    | Input 1 / Enable*      |  |
| 4                                 | Input 3 / Clock (+5V/+24V)        | -Input 2 / -Direction* |  |
| 5                                 | Input 4 (+5V/+24V)                | Input 2 / Direction*   |  |
| 6                                 | Input 5 (+5V/+24V)                | -Input 3 / -Clock*     |  |
| 7                                 | Input 6 (+5V/+24V)                | Input 3 / Clock*       |  |
| 8                                 | Analog Input1 (0-10V/0-20mA)      |                        |  |
| 9                                 | Analog Input2 (0-10V)             |                        |  |
| 10                                | Output 1 (open drain)             |                        |  |
| 11                                | Output 2 (open drain)             |                        |  |
| 12                                | GND                               |                        |  |
| *configured as differential input |                                   |                        |  |
| X3                                |                                   | Micro-USB              |  |

| ISO 8015 |                     | ISO 1302 |            | ISO 2768 cK |          | ISO 13715  |           |
|----------|---------------------|----------|------------|-------------|----------|------------|-----------|
|          |                     |          |            |             | Date     |            | Name      |
|          |                     |          |            |             | Drawn    | 25.09.2024 | Schneid_A |
|          |                     |          |            |             | Reviewed | 25.09.2024 | Rehse_P   |
|          |                     |          |            |             | Released | 25.09.2024 | Schneid_A |
| 01       | Ä 2024-0060, weight | Rehse_P  | 26.09.2024 |             |          |            |           |
| REV      | Rev. Text           | Name     | Date       |             |          |            |           |



|   |         |                     |   |
|---|---------|---------------------|---|
| Replacement for drawing from 03.11.2015 |         | Weight: ±10% 2.1 kg |   |
| PD6-CB80M048030-E-09                    |         | <div>1</div>        |   |
| 20002628                                |         |                     |   |
|   |         | A4 Page 1           |   |
| State: Released                         | Rev: 01 | CONFIDENTIAL        |  |

