

| X1                            |  |
|-------------------------------|--|
| <b>CANopen IN</b>             |  |
| M12/ 5-Pole / A-Coding / male |  |

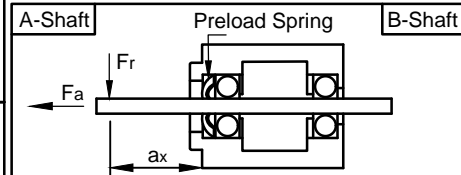
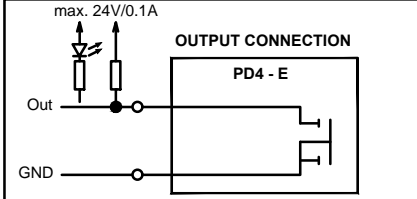
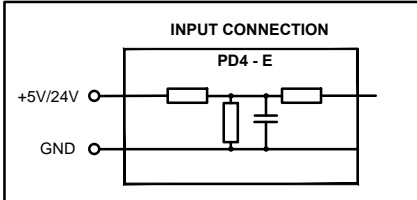
| X2                              |                 |
|---------------------------------|-----------------|
| <b>CANopen OUT</b>              |                 |
| M12/ 5-Pole / A-Coding / female |                 |
| Pin No.                         | Function        |
| 1                               | CAN_SHLD        |
| 2                               | +UB Logic (24V) |
| 3                               | GND             |
| 4                               | CAN+            |
| 5                               | CAN-            |

| X3                            |              |
|-------------------------------|--------------|
| <b>POWER</b>                  |              |
| M12/ 5-Pole / B-Coding / male |              |
| Pin No.                       | Function     |
| 1                             | +UB (12-48V) |
| 2                             | +UB (12-48V) |
| 3                             | GND          |
| 4                             | GND          |
| 5                             | N.C.         |

| X4                             |                                 |
|--------------------------------|---------------------------------|
| <b>IO</b>                      |                                 |
| M12/ 12-Pole / A-Coding / male |                                 |
| Pin No.                        | Function                        |
| 1                              | GND                             |
| 2                              | Input 1 (+5V/+24V)              |
| 3                              | Input 2 (+5V/+24V)              |
| 4                              | Input 3 (+5V/+24V)              |
| 5                              | Input 4 (+5V/+24V)              |
| 6                              | Input 5 (+5V/+24V)              |
| 7                              | Input 6 (+5V/+24V)              |
| 8                              | Analog Input (0-10V/0-20mA)     |
| 9                              | Output 1 (open drain)           |
| 10                             | Output 2 (open drain)           |
| 11                             | +5V Voltage Supply (max. 100mA) |
| 12                             | +UB Logic (24V)                 |

| MOTOR SPECIFICATION             |                   |      |                   |
|---------------------------------|-------------------|------|-------------------|
| No. of Poles                    | 6                 |      |                   |
| Rated Voltage                   | V DC              | 48   |                   |
| Operating Voltage - Min. / Max. | V DC              | 12   | 48                |
| Current - Rated / Peak          | A                 | 6    | 18                |
| Torque - Rated / Peak           | Nm                | 0.6  | 1.8               |
| Torque Constant                 | Nm/A              | 0.1  |                   |
| Power - Rated / Peak            | W                 | 220  | 660               |
| Speed - No Load / Rated         | ±10% rpm          | 4500 | 3500              |
| Singleturn Encoder Resolution   | bit               | 12   |                   |
| Multiturn Encoder Resolution    | bit               | 18   |                   |
| Rotor Inertia                   | kg m <sup>2</sup> | 17.3 | x10 <sup>-6</sup> |

| GENERAL MOTOR SPECIFICATION                    |         |          |         |
|--|---------|----------|---------|
| Interface                                      | CANOPEN |          |         |
| Ambient Temperature                            | °C      | Min. -10 | Max. 40 |
| Switch-off Temperature                         | °C      | 75       |         |
| Max. Ambient Humidity (non condensing)         | %       | 85       |         |
| Insulation Class                               | B       |          |         |
| Insulation Resistance                          | MΩ      | 100      |         |
| Dielectric Strength (for 1 min - coil to case) | V AC    | 500      |         |
| Protection Class (except shaft outlet)         | IP65    |          |         |



|                                  |           |         |
|----------------------------------|-----------|---------|
| Max. Axial Force Fa              | N         | 15      |
| Max. Radial Force Fr (a1 = 5 mm) | N         | 130     |
| Axial Play                       | Fa = 10 N | mm 0.03 |
| Radial Play                      | Fr = 5 N  | mm 0.02 |

| ISO 8015 | ISO 1302  | ISO 2768-1 cK | ISO 13715 | Weight: 1.45 kg          |
|----------|-----------|---------------|-----------|--------------------------|
|          |           | Date          | Name      | <b>PD4-EB59CD-M-65-2</b> |
|          |           | Drawn         | Import    |                          |
|          |           | Checked       | Wang_X    |                          |
|          |           | Approved      | Wang_X    | <b>09000015</b>          |
| REV      | Rev. Text | Name          | Rel. Date |                          |
|          |           |               |           | State: Released          |
|          |           |               |           | Rev: -.B                 |