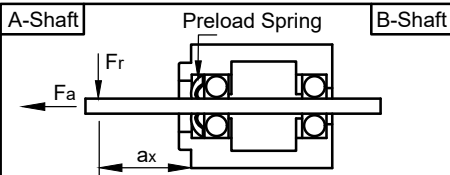
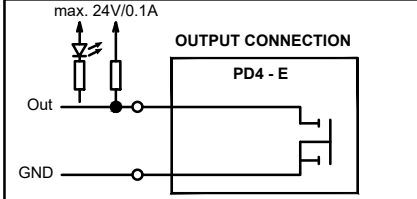
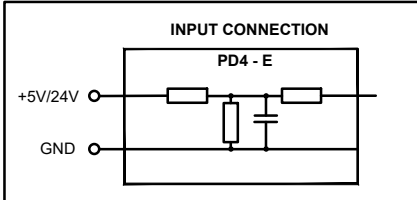


| X1 EtherNet/ IP                  |          |
|----------------------------------|----------|
| M12 / 4-Pole / D-Coding / female |          |
| Pin No.                          | Function |
| 1                                | TD+      |
| 2                                | RD+      |
| 3                                | TD-      |
| 4                                | RD-      |

| X3 POWER                       |              |
|--------------------------------|--------------|
| 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 IO                           |                                 |
|---------------------------------|---------------------------------|
| 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   |                   |
| Rotor Inertia                   | kg m <sup>2</sup> | 17.3 | x10 <sup>-6</sup> |



|                   |                |    |      |
|-------------------|----------------|----|------|
| 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 |

| GENERAL MOTOR SPECIFICATION                    |             |          |         |
|--|-------------|----------|---------|
| Interface                                      | ETHERNET/IP |          |         |
| 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        |          |         |

| ISO 8015 | ISO 1302            | ISO 2768 cK | ISO 13715  |
|----------|---------------------|-------------|------------|
|          |                     |             |            |
|          |                     |             |            |
|          |                     |             |            |
| 01       | unification PD4 -GM | Schneid_A   | 25.03.2021 |
| REV      | Rev. Text           | Name        | Date       |

|                 |            |         |              |                                      |
|-----------------|------------|---------|--------------|--------------------------------------|
| Date            |            | Name    |              | Weight: ~1.35 kg                     |
| Drawn           | 04.12.2017 | Import  |              |                                      |
| Reviewed        | 05.04.2018 | Wang_X  |              |                                      |
| Released        | 05.04.2018 | Wang_X  |              | <b>PD4-EB59CD-E-65-3</b><br>09000010 |
| State: Released |            | Rev: 01 | CONFIDENTIAL |                                      |

