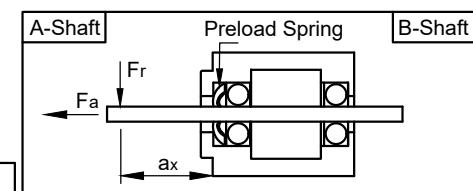


Lot No.



| X1 MOTOR | |
|--------------------------------|----------|
| M12 / 4-Pole / L-Coding / male | |
| Pin No. | Function |
| 1 | A\ |
| 2 | A |
| 3 | B |
| 4 | B\ |
| cable shield on housing | |

| X2 ENCODER | |
|--------------------------------|-----------|
| M12 / 8-Pole / A-Coding / male | |
| Pin No. | Function |
| 1 | Clock+ |
| 2 | Clock- |
| 3 | Data OUT+ |
| 4 | Data OUT- |
| 5 | GND |
| 6 | n.c. |
| 7 | n.c. |
| 8 | +UB |
| cable shield on housing | |

| MOTOR SPECIFICATION | | |
|------------------------------|-------------------|-----------------------|
| Nominal Operating Voltage | V DC | 48 |
| Max. Operating Voltage | V DC | 60 |
| Current per Winding | A | 4.2 |
| Resistance per Phase (25°C) | ±15% Ω | 0.55 |
| Inductance per Phase (1 kHz) | ±20% mH | 2.1 |
| Holding Torque | Nm | 2.3 |
| Step Angle | ±5% ° | 1.8 |
| Rotor Inertia | kg m ² | 48 x 10 ⁻⁶ |

| ENCODER SPECIFICATION | | |
|----------------------------|------|-----------|
| Operating Voltage | V DC | 4.75...15 |
| Singleturn Enc. Resolution | bit | 17 |
| Multiturn Enc. Resolution | bit | 16 |
| Interface | SSI | |

| | | | |
|-------------------|---|----|------|
| Max. Axial Force | F _a | N | 10 |
| Max. Radial Force | F _r (a ₁ = 10 mm) | N | 28 |
| Axial Play | F _a = 4.0 N | mm | 0.08 |
| Radial Play | F _r = 4.0 N | mm | 0.02 |

| ISO 8015 | ISO 1302 | ISO 2768 cK | ISO 13715 | Date | Name |
|----------|----------------|-------------|------------|------------|-----------|
| | | | | 07.09.2023 | Schneid_A |
| 02 | revise drawing | Kolev_I | 16.02.2024 | 09.11.2023 | Sejdini_B |
| 01 | revise drawing | Schneid_A | 15.11.2023 | 09.11.2023 | Sejdini_B |
| REV | Rev. Text | Name | Date | | |

| GENERAL MOTOR SPECIFICATION | | |
|--|----|------------|
| Ambient Temperature | °C | -10 ... 50 |
| Max. Ambient Humidity (non condensing) | % | 85 |
| Protection Class (except shaft outlet) | | IP65 |
| Protection Class (shaft outlet) | | IP54 |

| | | | |
|-----------------|---------|----------|-----------|
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| State: Released | Rev: 02 | | |

