

Stepper motor EMMS-ST-28-L-S

Part number: 1451384

FESTO



 General operating condition

Data sheet

| Feature | Value |
|--|---|
| Ambient temperature | -10 °C ... 50 °C |
| Storage temperature | -20 °C ... 70 °C |
| Relative air humidity | 0 - 85 % |
| Conforms to standard | IEC 60034 |
| Insulation protection class | B |
| Thermal class according to EN 60034-1 | B |
| Rating class according to EN 60034-1 | S1 |
| Degree of protection | IP65 |
| Electrical connection technology | Plug |
| Note on materials | RoHS-compliant |
| Corrosion resistance class (CRC) | 1 - Low corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B2-L |
| Certification | RCM compliance mark c UL us - Recognized (OL) |
| CE marking (see declaration of conformity) | As per EU EMC directive As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions |
| Nominal operating voltage DC | 48 V |
| Motor holding torque | 0.09 Nm |
| Max. rotational speed | 6000 rpm |
| Step angle with full step | 1.8 deg |
| Step angle tolerance | ±5% |
| Motor nominal current | 1.4 A |
| Voltage constant, phase | 6 mV/min |
| Phase winding resistance | 2.3 Ohm |
| Winding inductance phase | 1.4 mH |
| Rotor mass moment of inertia | 0.018 kgcm ² |
| Total output inertia moment | 0.018 kgcm ² |
| Product weight | 268 g |
| Permissible axial shaft load | 7 N |
| Permissible radial shaft load | 20 N |