

Stepper motor EMMS-ST-28-L-SEB

Part number: 1451382

FESTO



Data sheet

Feature	Value
Type code	EMMS-ST
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 conformity	VDMA24364-B2-L
Certification	RCM compliance mark c UL us - Recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions To UK instructions for EMC
Nominal operating voltage DC	48 V
Motor holding torque	0.09 Nm
Max. rotational speed	6000 1/min
Step angle with full step	1.8 deg
Step angle tolerance	±5%
Motor nominal current	1.4 A
Voltage constant, phase	6 mVmin
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	0.025 kgcm ²
Product weight	380 g
Permissible axial shaft load	7 N
Permissible radial shaft load	20 N
Rotor position sensor	Incremental encoder
Rotor position sensor interface	RS422 TTL A/B channels + zero index
Rotor position sensor measuring principle	Optical
Brake holding torque	0.2 Nm

Feature	Value
Brake DC operating voltage	24 V
Brake power consumption	8 W
Brake mass moment of inertia	0.007 kgcm ²