Stepper motor
EMMS-ST-28-L-SEB

Part number: 1451382



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 instructions for EMC 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 mVmin
Phase winding resistance	2.3 Ohm
Winding inductance phase	1.4 mH
Rotor mass moment of inertia	0.018 kgcm²
Total output inertia moment	0.025 kgcm²
Product weight	383 g
Permissible axial shaft load	7 N
Permissible radial shaft load	20 N

Feature	Value
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
Brake DC operating voltage	24 V
Brake power consumption	8 W
Brake mass moment of inertia	0.007 kgcm²