Stepper motor
EMMS-ST-87-M-SEB-G2

Part number: 1370489



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
Temperature class as per EN 60034-1	B
Rating class as per EN 60034-1	S1
Degree of protection	IP54
Electrical connector system	Plug
Note on materials	RoHS-compliant
Corrosion resistance class CRC	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Approval	RCM trademark c UL us - Recognized (OL)
CE mark (see declaration of conformity)	To EU EMC 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	5.9 Nm
Max. rotational speed	550 rpm
Stepper angle for complete step	1.8 deg
Stepping angle tolerance	±5%
Nominal motor current	9.5 A
Voltage constant, phase	68.6 mVmin
Phase winding resistance	0.23 Ohm
Phase winding inductance	2.6 mH
Mass moment of inertia of rotor	1.9 kgcm²
Total mass moment of inertia of output	1.97 kgcm²
Product weight	3600 g
Permissible axial shaft load	65 N
Permissible radial shaft load	200 N
Rotor position sensor	Incremental encoder

Feature	Value
Rotor position encoder interface	RS422 TTL AB channels + zero index
Rotor position sensor, encoder measuring principle	Optical
Brake holding torque	2 Nm
Operating voltage DC for brake	24 V
Power consumption, brake	11 W
Mass moment of inertia of brake	0.07 kgcm²