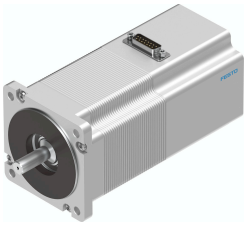
Stepper motor EMMS-ST-87-M-SB-G2

Part number: 1370488



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	IP54
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
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 1/min
Step angle with full step	1.8 deg
Step angle tolerance	±5%
Motor nominal current	9.5 A
Voltage constant, phase	68.6 mVmin
Phase winding resistance	0.23 Ohm
Winding inductance phase	2.6 mH
Rotor mass moment of inertia	1.9 kgcm²
Total output inertia moment	1.97 kgcm²
Product weight	3450 g
Permissible axial shaft load	65 N
Permissible radial shaft load	200 N
Brake holding torque	2 Nm

Feature	Value
Brake DC operating voltage	24 V
Brake power consumption	11 W
Brake mass moment of inertia	0.07 kgcm²