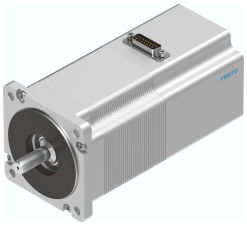
Stepper motor EMMS-ST-87-M-SB-G2

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
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
CE 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	3450 g
Permissible axial shaft load	65 N
Permissible radial shaft load	200 N
Brake holding torque	2 Nm

Feature	Value
Operating voltage DC for brake	24 V
Power consumption, brake	11 W
Mass moment of inertia of brake	0.07 kgcm²