

# Stepper motor EMMS-ST-28-L-SE

Part number: 1430663

FESTO



 General operating condition

## 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 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 mV/min
Phase winding resistance	2.3 Ohm
Winding inductance phase	1.4 mH
Rotor mass moment of inertia	0.018 kgcm <sup>2</sup>
Total output inertia moment	0.018 kgcm <sup>2</sup>
Product weight	295 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