

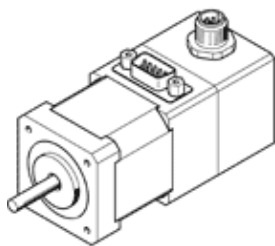
# stepper motor EMMS-ST-42-S-SE-G2

Part number: 1370471

★ Core product range

Without gearing, without brake.

FESTO



## Data sheet

Feature	Value
Ambient temperature	-10 ... 50 °C
Storage temperature	-20 ... 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
Protection class	IP54
Electrical connector system	Plug
Materials note	Conforms to RoHS
Corrosion resistance classification CRC	1 - Low corrosion stress
PWIS conformity	VDMA24364-B2-L
Authorisation	RCM Mark c UL us - Recognized (OL)
CE mark (see declaration of conformity)	to EU directive for EMC in accordance with 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	0.5 Nm
Max. speed	1,740 1/min
Stepper angle at full step	1.8 deg
Stepper angle tolerance	±5 %
Nominal motor current	1.8 A
Voltage constant, phase	23 mVmin
Winding resistance phase	1.75 Ohm
Winding inductance phase	3.3 mH
Mass moment of inertia of rotor	0.082 kgcm <sup>2</sup>
Overall mass moment of inertia at power take-off	0.082 kgcm <sup>2</sup>
Product weight	450 g
Permissible axial shaft load	7 N
Permissible radial shaft load	20 N
Rotor position sensor	Incremental encoder
Rotary position encoder interface	RS422 TTL AB-channel + zero index
Rotary position encoder measuring principle	Optical
Brake holding torque	0.4 Nm