

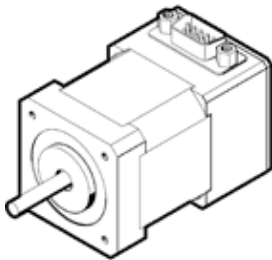
# stepper motor EMMS-ST-42-S-S-G2

Part number: 1370470

★ 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
Authorisation	RCM Mark c UL us - Recognized (OL)
CE mark (see declaration of conformity)	to EU directive for EMC
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	360 g
Permissible axial shaft load	7 N
Permissible radial shaft load	20 N
Brake holding torque	0.4 Nm