

# Servo motor EMMS-AS-55-MK-LS-TS-S1

Part number: 1569803

FESTO



## Data sheet

Feature	Value
Number of pole pairs	4
Type code	EMMS-AS
Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor interface	EnDat® 22
Rotor position sensor measuring principle	Inductive
Temperature monitoring	PTC resistor
Max. rotational speed	7330 1/min
Nominal rotary speed	6600 1/min
Insulation protection class	F
Motor constants	0.558 Nm/A
Nominal operating voltage DC	360 V
Motor nominal power	461 W
DC nominal voltage	360 V
Motor nominal current	1.19 A
Rotor position sensor resolution	18 bit
Phase-phase winding resistance	14.7 Ohm
Winding inductance phase-phase	13.8 mH
Type of winding switch	Star inside
Peak current	5 A
Voltage constant, phase-to-phase	34.73 mVmin
Rating class according to EN 60034-1	S1
CE marking (see declaration of conformity)	As per EU EMC directive As per EU low voltage directive
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Storage temperature	-20 °C ... 60 °C
Relative air humidity	0 - 90 %
Degree of protection	IP65
Ambient temperature	-10 °C ... 40 °C
Certification	RCM compliance mark c UL us - Recognized (OL)
Total output inertia moment	0.223 kgcm <sup>2</sup>
Nominal torque	0.67 Nm
Peak torque	2.7 Nm
Stall torque	0.97 Nm
Permissible axial shaft load	75 N
Permissible radial shaft load	150 N

<b>Feature</b>	<b>Value</b>
MTTF, subcomponent	76 years, rotor position sensor
MTTFd, subcomponent	152 years, rotor position sensor
Product weight	1600 g
Electrical connection technology	Plug
Note on materials	RoHS-compliant
Conforms to standard	IEC 60034
Featherkey shaft design	DIN 6885 A 3 x 3 x 14