

# servo motor EMMS-AS-55-SK-HS-TMB-S1

Part number: 1569781

FESTO

Without gear unit.



## Data sheet

Feature	Value
Ambient temperature	-10 ... 40 °C
Storage temperature	-20 ... 60 °C
Relative air humidity	0 - 90 %
Conforms to standard	IEC 60034
Insulation protection class	F
Rating class according to EN 60034-1	S1
Temperature monitoring	PTC resistor
Protection class	IP65
Shaft design Featherkey	DIN 6885 A 3 x 3 x 14
Electrical connector system	Plug
Materials note	Conforms to RoHS
Corrosion resistance classification CRC	2 - Moderate corrosion stress
Authorisation	RCM Mark c UL us - Recognized (OL)
CE mark (see declaration of conformity)	to EU directive for EMC to EU directive low-voltage devices
Nominal operating voltage DC	565 V
Nominal voltage DC	565 V
Type of winding switch	Star inside
Number of pole pairs	4
Standstill torque	0.46 Nm
Nominal torque	0.31 Nm
Peak torque	1.62 Nm
Nominal rotary speed	7,600 1/min
Max. speed	9,840 1/min
Nominal motor power	246 W
Nominal motor current	0.49 A
Peak current	2.7 A
Motor constant	0.635 Nm/A
Voltage constant, phase-to-phase	40.58 mVmin
Phase-phase winding resistance	56.9 Ohm
Phase-phase winding inductance	38.1 mH
Overall mass moment of inertia at power take-off	0.13 kgcm <sup>2</sup>
Product weight	1,420 g
Permissible axial shaft load	75 N
Permissible radial shaft load	140 N
Rotor position sensor	Absolute multi-turn encoder
Rotary position encoder interface	EnDat 22
Rotary position encoder measuring principle	Inductive
Rotary position encoder resolution	19 Bit
Brake holding torque	0.8 Nm
Operating voltage DC for brake	24 V
Power consumption, brake	10 W

Feature	Value
Mass moment of inertia of brake	0.02 kgcm <sup>2</sup>
Switching cycles, holding brake	10 million idle actuations (without friction work)
MTTF, subcomponent	76 years, rotary position encoder 11416 years, holding brake
MTTFd, subcomponent	152 years, rotary position encoder