

# servo motor EMMS-AS-40-S-LS-TSB

Part number: 1578603

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	IP54
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	360 V
Nominal voltage DC	360 V
Type of winding switch	Star inside
Number of pole pairs	4
Standstill torque	0.16 Nm
Nominal torque	0.14 Nm
Peak torque	0.5 Nm
Nominal rotary speed	9,000 1/min
Max. speed	23,040 1/min
Nominal motor power	135 W
Nominal motor current	0.83 A
Peak current	3.3 A
Motor constant	0.172 Nm/A
Voltage constant, phase-to-phase	11 mV/min
Phase-phase winding resistance	20.5 Ohm
Phase-phase winding inductance	5.18 mH
Overall mass moment of inertia at power take-off	0.033 kgcm <sup>2</sup>
Product weight	920 g
Permissible axial shaft load	12 N
Permissible radial shaft load	78 N
Rotor position sensor	Absolute single turn encoder
Rotary position encoder interface	EnDat 22
Rotary position encoder measuring principle	Inductive
Rotary position encoder resolution	18 Bit
Brake holding torque	0.4 Nm
Operating voltage DC for brake	24 V
Power consumption, brake	6.2 W
Mass moment of inertia of brake	0.01 kgcm <sup>2</sup>
Switching cycles, holding brake	5 million idle actuations (without work of friction!)
MTTF, subcomponent	76 years, rotary position encoder 4469 years, holding brake
MTTFd, subcomponent	152 years, rotary position encoder