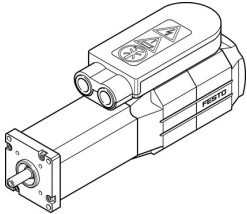


# Servo motor EMMS-AS-40-S-LS-TMB

Part number: 1578604

FESTO



## Data sheet

Feature	Value
Number of pole pairs	4
Type code	EMMS-AS
Rotor position sensor	Absolute encoder, multi-turn
Rotor position sensor interface	EnDat® 22
Rotor position sensor measuring principle	Inductive
Temperature monitoring	PTC resistor
Max. rotational speed	23040 1/min
Nominal rotary speed	9000 1/min
Brake DC operating voltage	24 V
Insulation protection class	F
Brake power consumption	6.2 W
Motor constants	0.172 Nm/A
Nominal operating voltage DC	360 V
Motor nominal power	135 W
DC nominal voltage	360 V
Motor nominal current	0.83 A
Rotor position sensor resolution	19 bit
Phase-phase winding resistance	20.5 Ohm
Winding inductance phase-phase	5.18 mH
Type of winding switch	Star inside
Peak current	3.3 A
Voltage constant, phase-to-phase	11 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	IP54
Ambient temperature	-10 °C ... 40 °C
Certification	RCM compliance mark c UL us - Recognized (OL)
Total output inertia moment	0.033 kgcm <sup>2</sup>
Brake holding torque	0.4 Nm
Brake mass moment of inertia	0.01 kgcm <sup>2</sup>
Nominal torque	0.14 Nm

<b>Feature</b>	<b>Value</b>
Peak torque	0.5 Nm
Stall torque	0.16 Nm
Permissible axial shaft load	12 N
Permissible radial shaft load	78 N
MTTF, subcomponent	76 years, rotor position sensor 4469 years, holding brake
MTTFd, subcomponent	152 years, rotor position sensor
Switching cycles, holding brake	5 million idle actuations (without friction work!)
Product weight	920 g
Electrical connection technology	Plug
Note on materials	RoHS-compliant
Conforms to standard	IEC 60034