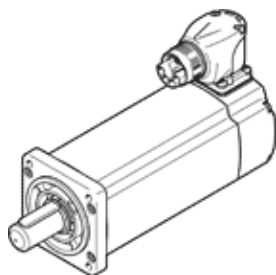


servo motor EMMT-AS-60-L-HS-RS

Part number: 5242216

☆ Core product range

FESTO



Data sheet

Feature	Value
Ambient temperature	-15 ... 40 °C
Note on ambient temperature	up to 80°C with derating -1.5%/°C
Max. installation height	4,000 m
Note on max. installation height	As of 1,000 m, only with derating of -1.0% per 100 m
Storage temperature	-20 ... 70 °C
Relative air humidity	0 - 90 %
Conforms to standard	IEC 60034
Thermal class according to EN 60034-1	F
Max. winding temperature	155 °C
Rating class according to EN 60034-1	S1
Temperature monitoring	Digital motor temperature transmission via EnDat® 2.2
Motor type to EN 60034-7	IM B5 IM V1 IM V3
Assembly position	Any
Protection class	IP40
Note on degree of protection	IP40 motor shaft without RWDR IP65 motor shaft with RWDR IP67 for motor housing with connection technology
Concentricity, coaxiality, axial runout to DIN SPEC 42955	N
Balance quality	G 2,5
Detent torque	<1.0% of peak torque
Storage lifetime under nominal conditions	20,000 h
Interface code, motor out	60P
Electrical connection 1, connection type	Hybrid plugs
Electrical connection 1, connection technology	M23x1
Electrical connection 1, number of pins/wires	15
Degree of contamination	2
Materials note	Contains PWIS substances Conforms to RoHS
Corrosion resistance classification CRC	0 - No corrosion stress
Vibration resistance	Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
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 in accordance with EU RoHS directive
Certificate issuing department	UL E342973
Nominal operating voltage DC	565 V
Type of winding switch	Star inside
Number of pole pairs	5
Standstill torque	1.66 Nm
Nominal torque	1.4 Nm

Feature	Value
Peak torque	5.6 Nm
Nominal rotary speed	3,000 1/min
Max. speed	11,900 1/min
Max. mechanical speed	16,000 1/min
Nominal motor power	440 W
Continuous open-circuit current	3.8 A
Nominal motor current	3.2 A
Peak current	18.3 A
Motor constant	0.44 Nm/A
Standstill torque constant	0.52 Nm/A
Voltage constant, phase-to-phase	31.2 mVmin
Phase-phase winding resistance	2.68 Ohm
Phase-phase winding inductance	7 mH
Winding longitudinal inductivity Ld (phase)	4.2 mH
Winding cross inductivity Lq (phase)	5 mH
Electric time constant	3 ms
Thermal time constant	43 min
Thermal resistance	1 K/W
Measuring flange	250 x 250 x 15 mm, steel
Overall mass moment of inertia at power take-off	0.403 kgcm ²
Product weight	1,910 g
Permissible axial shaft load	70 N
Permissible radial shaft load	350 N
Rotor position sensor	Absolute single turn encoder
Rotor position sensor, manufacturer designation	ECl 1118
Rotor position sensor, absolute detectable revolutions	1
Rotary position encoder interface	EnDat 22
Rotary position encoder measuring principle	Inductive
Rotor position sensor, DC operating voltage	5 V
Rotor position sensor, DC operating voltage range	3.6 ... 14 V
Rotor position sensor, position values per revolution	262,144
Rotor position encoder resolution	18 Bit
Rotor position sensor, system accuracy of angle measurement	-120 ... 120 arcsec
MTTF, subcomponent	190 years, rotor position sensor
MTTFd, subcomponent	380 years, rotor position sensor