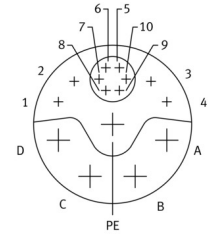


Servo motor EMMT-AS-60-S-LS-RM

Part number: 5242197

FESTO



Data sheet

Feature	Value
Type code	EMMT-AS
Ambient temperature	-15 °C ... 40 °C
Note on ambient temperature	Up to 80 °C with derating of -1.5% per degree Celsius
Max. installation height	4000 m
Information on max. installation height	with 1,000 m and longer only with derating of -1.0% per 100 m
Storage temperature	-20 °C ... 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 as per EN 60034-7	IM B5 IM V1 IM V3
Mounting position	Any
Degree of protection	IP40
Note on degree of protection	IP40 for motor shaft without rotary shaft seal IP65 for motor shaft with rotary shaft seal IP67 for motor housing, incl. connection technology
Concentricity, coaxiality, axial runout according to DIN SPEC 42955	N
Balancing quality	G 2.5
Detent torque	< 1.0% of peak torque
Storage lifetime, under nominal conditions	20000 h
Interface code, motor out	60P
Electrical connection 1, connection type	Hybrid plug
Electrical connection 1, connection technology	M23x1
Electrical connection 1, number of pins/wires	15
Electrical connection for input 1, connection pattern	00995913
Contamination level	2
Note on materials	RoHS-compliant
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS conformity	VDMA24364 zone III
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6

Feature	Value
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Certification	RCM compliance mark c UL us - Recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU low voltage directive As per EU RoHS directive
Certificate issuing authority	UL E342973
Nominal operating voltage DC	325 V
Type of winding switch	Star inside
Number of pole pairs	5
Stall torque	0.7 Nm
Nominal torque	0.64 Nm
Peak torque	1.6 Nm
Nominal rotary speed	3000 1/min
Max. rotational speed	7100 1/min
Max. mechanical speed	16000 1/min
Motor nominal power	200 W
Continuous stall current	1.7 A
Motor nominal current	1.6 A
Peak current	5.4 A
Motor constants	0.41 Nm/A
Standstill torque constant	0.49 Nm/A
Voltage constant, phase-to-phase	29.9 mVmin
Phase-phase winding resistance	11.7 Ohm
Winding inductance phase-phase	38 mH
Winding longitudinal inductivity Ld (phase)	15.5 mH
Cross inductivity Lq (phase)	19 mH
Electric time constant	2.1 ms
Thermal time constant	40 min
Thermal resistance	1.3 K/W
Measuring flange	250 x 250 x 15 mm, steel
Total output inertia moment	0.169 kgcm ²
Product weight	1180 g
Permissible axial shaft load	70 N
Permissible radial shaft load	350 N
Rotor position sensor	Absolute encoder, multi-turn
Rotor position sensor for manufacturer designation	EQI 1131
Rotor position encoder for absolutely detectable revolutions	4096
Rotor position sensor interface	EnDat® 22
Rotor position sensor measuring principle	Inductive
Rotor position encoder for DC operating voltage	5 V
Rotor position encoder for DC operating voltage range	3.6 V ... 14 V
Rotor position encoder for positional values per revolution	524288
Rotor position sensor resolution	19 bit
Rotor position encoder system accuracy angle measurement	-120 arcsec ... 120 arcsec
MTTF, subcomponent	190 years, rotor position sensor
MTTFd, subcomponent	380 years, rotor position sensor