Servo motor EMMT-AS-40-S-LS-R2SB Part number: 8171414





Data sheet

Feature	Value
Ambient temperature	-40 °C40 °C
Note on ambient temperature	Up to 80°C with derating -2%/°C
Max. installation height	4000 m
Note on max. installation height	As of 1,000 m: only with derating of -1.0% per 100 m
Storage temperature	-40 °C70 °C
Relative air humidity	0 - 90%
Conforms to standard	IEC 60034
Temperature class as per EN 60034-1	F
Max. winding temperature	155 °C
Rating class as per 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
Mounting position	optional
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 including connection components
Concentricity, coaxiality, axial runout to DIN SPEC 42955	N
Balance quality	G 2.5
Detent torque	<1.0% of peak torque
Bearing lifetime under nominal conditions	20000 h
Interface code, motor out	40P
Electrical connection 1, connection type	Hybrid plug
Electrical connection 1, connector system	M23x1
Electrical connection 1, number of connections/cores	15
Pollution degree	2
Note on materials	RoHS-compliant
Corrosion resistance class CRC	0 - No corrosion stress

FESTO

VDMA24364 zone III
Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6
Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
RCM trademark c UL us - Recognized (OL)
To EU EMC Directive To EU Low Voltage Directive In accordance with EU RoHS Directive
To UK instructions for EMC To UK RoHS instructions To UK regulations for electrical equipment
UL E342973
325 V
Star inside
5
0.24 Nm
0.21 Nm
0.83 Nm
7000 rpm
15600 rpm
15000 rpm
100000 rad/s ²
154 W
1.3 A
1.2 A
5.4 A
0.175 Nm/A
0.24 Nm/A
14.6 mVmin
13.1 Ohm
13.9 mH
5.3 mH
6.9 mH
1.06 ms
4.6 min
1.58 K/W
200 x 200 x 15 mm, steel
0.045 kgcm ²
600 g
30 N
150 N
Absolute single-turn encoder
ECI 1119
1
EnDat® 22
Inductive
5 V
3.6 V14 V
524288
19 bit
-120 arcsec120 arcsec
-120 arcsec120 arcsec 0.45 Nm

Feature	Value
Brake current consumption	0.34 A
Power consumption, brake	8.2 W
Brake coil resistance	70.9 Ohm
Brake coil inductivity	146 mH
Brake separation time	28 ms
Brake closing time	41 ms
DC brake response delay	8 ms
Max. brake no-load speed	12000 rpm
Max. friction per braking process	1500 J
Number of emergency stops per hour	1
Total brake friction	1.5 kJ
Mass moment of inertia of brake	0.0058 kgcm ²
Switching cycles holding brake	10 million idle actuations (without friction work!)
Mean time to failure (MTTF), subcomponent	190 years, rotor position sensor