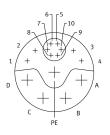
Servo motor EMMT-AS-80-S-LS-RMY Part number: 8160642





Data sheet

Feature	Value
Ambient temperature	-15 °C40 °C
Note on ambient temperature	Up to 80°C with derating of -1.5% per degree Celsius
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	-20 °C70 °C
Relative air humidity	0 - 90%
Conforms to standard	IEC 60034
Temperature class as per EN 60034-1	F
Max. winding temperature	155 ℃
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	Ν
Balance quality	G 2.5
Detent torque	<1,0% vom Spitzendrehmoment
Bearing lifetime under nominal conditions	20000 h
Interface code, motor out	80P
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

Alibration resistanceTranspo 60068- 5hock resistanceTranspo 60068- Shock to keyprovalRCM tra German c UL usSE mark (see declaration of conformity)To EU EI To EU LI In accorTo EU LI In accorCE marking (see declaration of conformity)To UK key To UK resistanceTo UK key To UK resistanceCertificate issuing authorityTÜ V9 660 UL E342UE E342 Standstill torqueViype of winding switchStar insi Standstill torque1.46 Nm Rominal torqueNominal torque1.34 Nm 2000 rp280 Nm Rominal speed3000 rp Aax, rotational speedAdva, mechanical speed4000 rd 408 W Continuous stall current3.1 A 2.7 A 2.7 A 2.8 Am Accurrent3.1 A 3.1 A 3	et with severity level 2 to FN 942017-5 and EN 60068-2-27 emark 'echnical Control Board (TÜV) Recognized (OL) C Directive v Voltage Directive ance with EU RoHS Directive tructions for EMC HS instructions gulations for electrical equipment /INS 464.00/24 073
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Vinding cross inductivity Lq (phase) 12.2 mł	
electric time constant 4.9 ms	
Thermal time constant 42 min	
hermal resistance 0.95 K/	1
	0 x 15 mm, steel
Total mass moment of inertia of output 0.597 k	
Product weight 2020 g	
Permissible axial shaft load 120 N	
Permissible radial shaft load 620 N	
	multi-turn safety encoder
otor position sensor, manufacturer designation EQI 113	-
otor position sensor, absolute detectable revolutions 4096	
Rotor position encoder interface EnDat®	22
Rotor position sensor, encoder measuring principle Inductiv	
otor position sensor, DC operating voltage 5 V	
otor position sensor, DC operating voltage ange 3.6 V1	
otor position sensor, position values per revolution 524288	
Rotor position transducer resolution 19 bit	
Safety device Safety	

Feature	Value
Maximum SIL	Safety integrity level 3 See user documentation
Safety sub-functions up to SIL2	Reliable recording and transmission of single-turn position data
Safety sub-functions up to SIL3	Reliable recording and transmission of single-turn position data, only with additional software function in the servo drive
Maximum PL and category	Performance Level e, Category 3 See user documentation
Safety sub-function up to PL d, Cat. 3	Reliable recording and transmission of single-turn position data
Safety sub-function up to PL e, Cat. 3	Reliable recording and transmission of single-turn position data, only with additional software function in the servo drive
PFHd, subcomponent	15 x 10E-9, encoder
Duration of use Tm, subcomponent	20 years, rotor position sensor