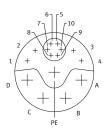
Servo motor EMMT-AS-80-L-HS-RMYB Part number: 8160653





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
Information on max. installation height	with 1,000 m and longer only with derating of -1.0% per 100 m
Storage temperature	-20 °C70 °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
Bearing lifetime, under nominal conditions	20000 h
Interface code, motor out	80P
Electrical connection 1, connection type	Hybrid plug
Electrical connection 1, connection technology	M23x1
Electrical connection 1, number of pins/wires	15
Contamination level	2
Note on materials	RoHS-compliant
Corrosion resistance class (CRC)	0 - No corrosion stress

Vibration resistanceTra ENShock resistanceShiCertificationRC Ge cCertificationRC GeCE marking (see declaration of conformity)As As As AsUKCA marking (see declaration of conformity)To To To To Certificate issuing authorityCertificate issuing authorityTÜ UL Nominal operating voltage DCNumber of pole pairs5 Stall torqueStall torque3.5 Nominal torquePeak torque9.5 Nominal rotary speedNominal speed30 Max. rotational speedAngular acceleration10 Motor nominal powerMotor nominal power91 Continuous stall currentContinuous stall current4.3	MA24364 zone III ansport application test with severity level 2 as per FN 942017-4 and 1 60068-2-6 loock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 cM compliance mark erman Technical Control Board (TÜV) JL us - Recognized (OL) per EU EMC directive per EU low voltage directive per EU RoHS directive UK instructions for EMC UK RoHS instructions UK instructions for electrical equipment IV 968/INS 464.00/24 E342973 30 V ar inside 5 Nm 9 Nm 90 Nm 90 Nm 90 Orpm 340 rpm 20000 rad/s ² 0 W
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ULNominal operating voltage DC68Type of winding switchStatNumber of pole pairs5Stall torque3.5Nominal torque2.9Peak torque9.9Nominal rotary speed30Max. rotational speed85Angular acceleration10Motor nominal power91Continuous stall current4.3	. E342973 30 V ar inside 55 Nm 9 Nm 99 Nm 1000 rpm 140 rpm 10000 rad/s ²
Type of winding switchStallNumber of pole pairs5Stall torque3.5Nominal torque2.9Peak torque9.5Nominal rotary speed30Max. rotational speed85Angular acceleration10Motor nominal power91Continuous stall current4.3	ar inside 5 Nm 9 Nm 900 rpm 640 rpm 00000 rad/s ²
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Stall torque3.5Nominal torque2.9Peak torque9.9Nominal rotary speed30Max. rotational speed85Angular acceleration10Motor nominal power91Continuous stall current4.3	9 Nm 9 Nm 000 rpm 640 rpm 00000 rad/s ²
Nominal torque2.9Peak torque9.5Nominal rotary speed30Max. rotational speed85Angular acceleration10Motor nominal power91Continuous stall current4.3	9 Nm 9 Nm 000 rpm 640 rpm 00000 rad/s ²
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Max. rotational speed 85 Angular acceleration 10 Motor nominal power 91 Continuous stall current 4.3	640 rpm 00000 rad/s ²
Angular acceleration10Motor nominal power91Continuous stall current4.3	00000 rad/s ²
Angular acceleration10Motor nominal power91Continuous stall current4.3	00000 rad/s ²
Continuous stall current 4.3	0 W
Continuous stall current 4.3	
Motor nominal current	3 A
Motor nominal current 3.5	5 A
	.5 A
Motor constants 0.8	82 Nm/A
Standstill torque constant 0.9	93 Nm/A
Voltage constant, phase-to-phase 56	5 mVmin
	69 Ohm
	2.6 mH
	5 mH
	- 45 mH
Electric time constant 7 n	
	3 min
	68 K/W
	50 x 250 x 15 mm, steel
	993 kgcm ²
	20 g
	20 N
	20 N
	fety encoder, absolute multi-turn
· · · · · · · · · · · · · · · · · · ·	996
	Dat® 22
	ductive
Rotor position encoder for DC operating voltage 5 V	
	6 V14 V
	24288
) bit
Brake holding torque 7 N	
Brake DC operating voltage 24	
Brake power consumption 15	

Feature	Value
	1 Safety device Safety integrity level 3 See user documentation Reliable recording and transmission of single-turn position data Reliable recording and transmission of single-turn position data, only with additional software function in the servo drive Performance Level e, Category 3 See user documentation Reliable recording and transmission of single-turn position data Reliable recording and transmission of single-turn position data Reliable recording and transmission of single-turn position data, only with additional software function in the servo drive
Brake mass moment of inertia	0.459 kgcm ²
Switching cycles, holding brake	10 million idle actuations (without friction work!)
PFHd, subcomponent	15 x 10E-9, encoder
Duration of use Tm, subcomponent	20 years, rotor position sensor
Energy efficiency	ENEFF (CN) / Class 2