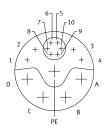
## Servo motor EMMT-AS-60-L-HS-RMYB Part number: 8160641





## **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	Ν
Balancing quality	G 2.5
Detent torque	<1.0% of peak torque
Bearing 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
Contamination level	2
Note on materials	RoHS-compliant
Corrosion resistance class (CRC)	0 - No corrosion stress

## **FESTO**

EN 60068-2-6	
EN 60068-2-6Shock resistanceShock test with severity levCertificationRCM compliance mark German Technical Control B c UL us - Recognized (OL)CE marking (see declaration of conformity)As per EU ROU Girective As per EU ROUS directiveUKCA marking (see declaration of conformity)To UK instructions for ENC To UK ROUS directiveUKCA marking (see declaration of conformity)To UK instructions for ENC To UK ROUS directiveUKCA marking (see declaration of conformity)To UK instructions for ENC To UK ROUS declarations To UK instructions for ENCCertificate issuing authorityTÜV 968/INS 646.00/24 UL E342973Nominal operating voltage DC680 VType of winding switchStar insideNumber of pole pairs5Stall torque1.56 NmNominal torque1.3 NmPeak torque5.6 NmNominal power410 300 rpmAngular acceleration100000 rad/5²Motor nominal power410 WContinuous stall current3.5 AMotor constants0.44 Nm/AStandstill torque constant0.52 Nm/AVoltage constant, phase-to-phase31.2 mVminPhase-phase winding resistance2.68 OhmWinding inductance phase-phase1.2 K/WMeasuring flange250 x 250 x 15 mm, steelTotal output inertia moment0.49 kgrd²Product weight2230 gPermissible radial shaft load350 NRotor position sensorSafety encoder, absolute mRotor position sensor for manufacturer designatio	
Certification   RCM compliance mark German Technical Control B German Technical Control B (CLU us - Recognized (DL))     CE marking (see declaration of conformity)   As per EU RMS directive As per EU RMS directive (To UK RHS instructions for EMC To UK RHS instructions for elective (Set 242973)     Nominal operating voltage DC   680 V     Type of winding switch   Star inside     Number of pole pairs   5     Stall torque   1.56 Nm     Nominal torque   5.6 Nm     Nominal torque   5.6 Nm     Nominal toracy speed   3000 rpm     Max, rotational speed   100000 rad/s²     Motor nominal power   410 W     Continuous stall current   3.5 A     Motor constants   0.44 Nm/A     Standstill torque constant   0.52 Nm/A     Voltage constant, phase-to-phase   12 mH     Winding inductance phase-phase   12 mH     Winding inductance phase-phase   2 SA XIS     Prease stance   2 SA XIS     Prease stance   2 SA XIS     Prease stance   3 A     Probase inding resistance   2 SA XIS     Product	ith severity level 2 as per FN 942017-4 and
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Rotor position sensor for manufacturer designationEQI 1131Rotor position encoder for absolutely detectable revolutions4096	ulti-turn
Rotor position encoder for absolutely detectable revolutions 4096	
INDIDI POSICION SENSON MILENALE ILIUALE ILIUALE 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 V14 V	
Rotor position encoder for positional values per revolution 524288	
Rotor position sensor resolution 19 bit	
Rotor position encoder system accuracy angle measurement     -120 arcsec120 arcsec	
Brake holding torque 2.5 Nm	
Brake DC operating voltage 24 V	

Feature	Value
Brake power consumption	11 W
	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, only with additional software function in the servo drive
Brake mass moment of inertia	0.074 kgcm²
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