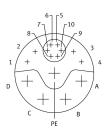
## Servo motor EMMT-AS-100-H-HS-RMYB Part number: 8160661





## **Data sheet**

Feature	Value
Ambient temperature	-15 °C40 °C
Note on ambient temperature	Up to 80 °C with derating of -2.25% 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 ℃
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	100A
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**

Vibration resistanceTransj EN 60Shock resistanceShockCertificationRCM of Germa c UL uCE marking (see declaration of conformity)As per As per As per As per As per UKCA marking (see declaration of conformity)To UK To UK To UK To UK To UK Certificate issuing authorityCertificate issuing authorityTÜV 9 UL E3 Nominal operating voltage DC680 V Star in Number of pole pairsStall torque12.4 I Nominal torque7.3 Ni Peak torqueNominal rotary speed2700 S150	side m n m pm
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	IS
Thermal time constant 68 mi	
Thermal resistance 0.39 H	
	300 x 20 mm, steel
	kgcm <sup>2</sup>
Product weight 1330	
Permissible axial shaft load 200 N	с -
Permissible radial shaft load 915 N	
	encoder, absolute multi-turn
Rotor position sensor for manufacturer designation EQI 12	
Rotor position encoder for absolutely detectable revolutions 4096	
Rotor position sensor interface EnDat	B 22
Rotor position sensor measuring principle Induct	
Rotor position encoder for DC operating voltage 5 V	
Rotor position encoder for DC operating voltage range 3.6 V.	
Rotor position encoder for positional values per revolution 52422	14 V
Rotor position sensor resolution 19 bit	
Brake holding torque 18 Nn	
Brake DC operating voltage 24 V	8
Brake power consumption 24 W	8

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	2.15 kgcm <sup>2</sup>
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