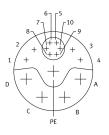
## Servo motor EMMT-AS-80-H-HS-RMYB Part number: 8185114





## **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% vom Spitzendrehmoment
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

## **FESTO**

Vibration resistance       I         Shock resistance       I         Certification       I         CE marking (see declaration of conformity)       I         UKCA marking (see declaration of conformity)       I         Certificate issuing authority       I         Nominal operating voltage DC       Type of winding switch	VDMA24364 zone III Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 RCM compliance mark German Technical Control Board (TÜV) c UL us - Recognized (OL) As per EU EMC directive As per EU EMC directive As per EU low voltage directive As per EU ROHS directive To UK instructions for EMC To UK RoHS instructions To UK instructions for electrical equipment TÜV 968/INS 464.00/24 UL E342973 FCE M
Shock resistance       I         Certification       I         CE marking (see declaration of conformity)       I         UKCA marking (see declaration of conformity)       I         Certificate issuing authority       I         Nominal operating voltage DC       I         Type of winding switch       I	EN 60068-2-6 Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 RCM compliance mark German Technical Control Board (TÜV) c UL us - Recognized (OL) As per EU EMC directive As per EU low voltage directive As per EU low voltage directive As per EU RoHS directive To UK instructions for EMC To UK RoHS instructions To UK instructions for electrical equipment TÜV 968/INS 464.00/24 UL E342973
Certification CE marking (see declaration of conformity) UKCA marking (see declaration of conformity) Certificate issuing authority Nominal operating voltage DC Type of winding switch	RCM compliance mark German Technical Control Board (TÜV) c UL us - Recognized (OL) As per EU EMC directive As per EU low voltage directive As per EU RoHS directive To UK instructions for EMC To UK ROHS instructions To UK instructions for electrical equipment TÜV 968/INS 464.00/24 UL E342973
CE marking (see declaration of conformity) UKCA marking (see declaration of conformity) Certificate issuing authority Nominal operating voltage DC Type of winding switch	German Technical Control Board (TÜV) c UL us - Recognized (OL) As per EU EMC directive As per EU low voltage directive As per EU RoHS directive To UK instructions for EMC To UK RoHS instructions To UK instructions for electrical equipment TÜV 968/INS 464.00/24 UL E342973
UKCA marking (see declaration of conformity) Certificate issuing authority Nominal operating voltage DC Type of winding switch	As per EU low voltage directive As per EU RoHS directive To UK instructions for EMC To UK RoHS instructions To UK instructions for electrical equipment TÜV 968/INS 464.00/24 UL E342973
Certificate issuing authority Nominal operating voltage DC Type of winding switch	To UK RoHS instructions To UK instructions for electrical equipment TÜV 968/INS 464.00/24 UL E342973
Nominal operating voltage DC       Type of winding switch	UL E342973
Type of winding switch	
	565 V
Number of pole pairs	Star inside
	5
Stall torque	4.3 Nm
Nominal torque	3.4 Nm
Peak torque	13.5 Nm
Nominal rotary speed	3000 rpm
Max. rotational speed	6500 rpm
	100000 rad/s <sup>2</sup>
Motor nominal power	1070 W
	4.8 A
Motor nominal current	3.8 A
	21.7 A
Motor constants	0.9 Nm/A
	1 Nm/A
	61.4 mVmin
	2.21 Ohm
	10.7 mH
	6.6 mH
	8 mH
	7.2 ms
	51 min
	0.65 K/W
	250 x 250 x 15 mm, steel
	2.43 kgcm <sup>2</sup>
	4750 g
	120 N
	620 N
	Safety encoder, absolute multi-turn
	EQI 1131
· · · · · · · · · · · · · · · · · · ·	4096
	EnDat® 22
	Inductive
	5 V
· · · · ·	3.6 V14 V
	524288
	19 bit
	7 Nm
	24 V
	15 W

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 <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