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

FESTO



General operating condition

Data sheet

Feature	Value
Ambient temperature	-40 °C 40 °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	-40 °C 70 °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	N
Balance 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, connector system	M23x1
Electrical connection 1, number of connections/cores	15
Electrical connection 1, connection pattern	00995913
Pollution degree	2
Note on materials	RoHS-compliant
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Approval	RCM trademark German Technical Control Board (TÜV) c UL us - Recognized (OL)

In EULOW Voltage Directive In accordance with EU RoHS Directive In Course and EU RoHS Directive In Course and EU RoHS Directive In UKA marking (see declaration of conformity) In UKRS Instructions for EMC To UK ROHS Instructions To UK regulations for electrical equipment. In UK-89373 Vorninal operating voltage DC Joby V In UK-89373 Vorninal operating voltage DC Joby of winding switch Star inside Vumber of pole pairs John Star Inside Vumber of pole pairs John Star Inside Vumber of pole pairs John Star Inside Vumber of pole pairs John Star Inside Vumber of pole pairs Vorninal rotorue John Star Inside Vorninal rotorue John Star Inside Vorninal rotorus Course Vorninal rotorus C	Feature	Value
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UE 349973	UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Star inside	Certificate issuing authority	
Standstill torque	Nominal operating voltage DC	565 V
Standstill torque	Type of winding switch	Star inside
Standstill torque 4.3 km		5
Nominal torque 3.4 Nm		
Peak torque 13.5 Nm Nominal rotary speed 3000 rpm Max. rotational speed 6500 rpm Max. rotational speed 14000 rpm Angular acceleration 11070 W Nominal power rating of motor 1070 W Continuous stall current 4.8 A Nominal motor current 3.8 A Peak current 21.7 A Motor constant 0.9 Nm/A Standstill torque constant 1 Nm/A Noting of constant, phase-to-phase 61.4 m/min Phase-phase winding resistance 2.21 0 Nm Phase-phase winding resistance 10.7 mH Winding cross inductivity Lq (phase) 6.6 mH Winding cross inductivity Lq (phase) 8 mH Electric time constant 51 min Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total mass moment of inertia of output 2.43 kgcm² Product weight 7750 g Permissible axial shaft load 620 N Rotor position sensor, annufacturer designation 10 cotor position sensor, annufacturer designation 10 cotor position sensor, annufacturer designation 10 cotor position sensor, annufacturer designation 10 pb it rotor position sensor, DC operating voltage range 3.6 V 14 V Totor position sensor, position values per revolution 19 bit rotor position sensor, position values per revolution 19 bit rotor position sensor, position values per revolution 19 bit rotor position sensor, position values per revolution 19 bit rotor position sensor, position values per revolution 19 bit rotor position sensor, position values per revolution 19 bit rotor position sensor, position values per revolution 19 bit rotor position sensor, position values per revolution 19 bit rotor position sensor, position values per revolution 19 bit rotor position sensor, system accuracy of angle measurement 120 arcsec 120	· · · · · · · · · · · · · · · · · · ·	3.4 Nm
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Power consumption, brake 15 W Brake coil resistance 38.4 Ohm Brake coil inductivity 900 mH	Operating voltage DC for brake	24 V
Brake coil resistance 38.4 Ohm Brake coil inductivity 900 mH	Brake current consumption	0.63 A
Brake coil inductivity 900 mH	Power consumption, brake	15 W
·	Brake coil resistance	38.4 Ohm
Brake separation time ≤45 ms	Brake coil inductivity	900 mH
	Brake separation time	≤45 ms

Feature	Value
Brake closing time	≤30 ms
DC brake response delay	≤4 ms
Max. brake no-load speed	10000 rpm
Max. friction per braking process	12000 J
Number of emergency stops per hour	1
Total brake friction	2400 kJ
Mass moment of inertia of brake	0.459 kgcm ²
Switching cycles holding brake	10 million idle actuations (without friction work!)
Safety device	Safety device
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
Energy efficiency	ENEFF (CN) / Class 2