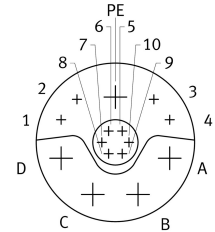


Servo motor EMMT-AS-150-L-HS-R3MYB

Part number: 8148329

FESTO



Data sheet

Feature	Value
Ambient temperature	-15 °C...40 °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 °C...70 °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	IP21
Note on degree of protection	IP21 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	150A
Electrical connection 1, connection type	Hybrid plug
Electrical connection 1, connection technology	M40x1
Electrical connection 1, number of pins/wires	15
Contamination level	2
Note on materials	RoHS-compliant
Corrosion resistance class (CRC)	0 - No corrosion stress

Feature	Value
LABS (PWIS) conformity	VDMA24364 zone III
Vibration resistance	as per EN 60068-2-6
Shock resistance	as per EN 60068-2-29 15 g/11 ms as per EN 60068-2-27
Certification	RCM compliance mark c UL us - Recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU low voltage directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions To UK instructions for electrical equipment
Certificate issuing authority	TÜV 968/FSP 2317.00/21 UL E342973
Nominal operating voltage DC	680 V
Type of winding switch	Star inside
Number of pole pairs	5
Stall torque	45.5 Nm
Nominal torque	29 Nm
Peak torque	87 Nm
Nominal rotary speed	2100 rpm
Max. rotational speed	3495 rpm
Angular acceleration	100000 rad/s ²
Motor nominal power	6377 W
Continuous stall current	23.6 A
Motor nominal current	15.4 A
Peak current	49.5 A
Motor constants	1.88 Nm/A
Standstill torque constant	2.23 Nm/A
Voltage constant, phase-to-phase	135.1 mVmin
Phase-phase winding resistance	0.25 Ohm
Winding inductance phase-phase	4.4 mH
Winding longitudinal inductivity Ld (phase)	2.15 mH
Cross inductivity Lq (phase)	2.2 mH
Electric time constant	17.1 ms
Thermal time constant	55 min
Thermal resistance	0.39 K/W
Measuring flange	450 x 450 x 30 mm, steel
Total output inertia moment	70.1 kgcm ²
Product weight	29700 g
Permissible axial shaft load	274 N
Permissible radial shaft load	1370 N
Rotor position sensor	Safety encoder, absolute multi-turn
Rotor position sensor for manufacturer designation	EQI 1331
Rotor position encoder for absolutely detectable revolutions	4096
Rotor position sensor interface	EnDat® 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 V...14 V
Rotor position encoder for positional values per revolution	524288
Rotor position sensor resolution	19 bit
Rotor position encoder system accuracy angle measurement	-65 arcsec...65 arcsec
Brake holding torque	65 Nm
Brake DC operating voltage	24 V
Brake current consumption	1.08 A

Feature	Value
Brake power consumption	26 W
Brake separation time	200 ms
	1 Safety device Safety integrity level 2 Reliable recording and transmission of single-turn position data Performance Level d, Category 3 Reliable recording and transmission of single-turn position data
Brake mass moment of inertia	12.5 kgcm ²
Switching cycles, holding brake	5 million idle actuations (without friction work!)
PFHd, subcomponent	15 x 10E-9, encoder
Duration of use Tm, subcomponent	20 years, rotor position sensor
MTTF, subcomponent	190 years, rotor position sensor
Energy efficiency	ENEFF (CN) / Class 1