Servo motor
EMMS-AS-70-M-LS-RMB

Part number: 550121



Data sheet

Feature	Value
Number of pole pairs	4
Type code	EMMS-AS
Rotor position sensor	Absolute encoder, multi-turn
Rotor position sensor interface	EnDat® 22
Rotor position sensor measuring principle	Inductive
Temperature monitoring	PTC resistor
Max. rotational speed	6450 1/min
Nominal rotary speed	4100 1/min
Brake DC operating voltage	24 V
Insulation protection class	F
Brake power consumption	11 W
Motor constants	0.864 Nm/A
Motor nominal power	1061 W
DC nominal voltage	360 V
Motor nominal current	2.6 A
Rotor position sensor resolution	19 bit
Phase-phase winding resistance	6.71 Ohm
Winding inductance phase-phase	13.44 mH
Type of winding switch	Star inside
Peak current	10 A
Voltage constant, phase-to-phase	52.2 mVmin
Rating class according to EN 60034-1	S1
CE marking (see declaration of conformity)	As per EU EMC directive As per EU low voltage directive
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Storage temperature	-20 °C ... 60 °C
Relative air humidity	0 - 90 %
Degree of protection	IP54
Ambient temperature	-10 °C ... 40 °C
Certification	RCM compliance mark c UL us - Recognized (OL)
Total output inertia moment	0.68 kgcm²
Brake holding torque	2 Nm
Brake mass moment of inertia	0.073 kgcm²
Nominal torque	2.29 Nm
Peak torque	7.75 Nm

Feature	Value
Stall torque	2.56 Nm
Permissible axial shaft load	75 N
Permissible radial shaft load	200 N
MTTF, subcomponent	76 years, rotor position sensor 1769 years, holding brake
MTTFd, subcomponent	152 years, rotor position sensor
Switching cycles, holding brake	10 million idle actuations (without friction work!)
Product weight	2900 g
Electrical connection technology	Plug
Note on materials	RoHS-compliant
Conforms to standard	IEC 60034