Servo motor
EMMS-AS-140-SK-HV-RMB

Part number: 1574637

Data sheet

Feature	Value
Type code	EMMS-AS
Ambient temperature	-10 °C ... 40 °C
Storage temperature	-20 °C ... 60 °C
Relative air humidity	0 - 90 %
Conforms to standard	IEC 60034
Insulation protection class	F
Rating class according to EN 60034-1	S1
Temperature monitoring	PTC resistor
Degree of protection	IP54
Featherkey shaft design	DIN 6885 A 8 x 7 x 40
Electrical connection technology	Plug
Note on materials	RoHS-compliant
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS conformity	VDMA24364-B2-L
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
DC nominal voltage	565 V
Type of winding switch	Star inside
Number of pole pairs	6
Stall torque	11.08 Nm
Nominal torque	7.7 Nm
Peak torque	27 Nm
Nominal rotary speed	3900 1/min
Max. rotational speed	4510 1/min
Motor nominal power	3140 W
Motor nominal current	5.23 A
Peak current	24.4 A
Motor constants	1.47 Nm/A
Voltage constant, phase-to-phase	88.71 mVmin
Phase-phase winding resistance	1.6 Ohm
Winding inductance phase-phase	9.01 mH
Total output inertia moment	9.271 kgcm²
Product weight	10400 g

Feature	Value
Permissible axial shaft load	200 N
Permissible radial shaft load	780 N
Rotor position sensor	Absolute encoder, multi-turn
Rotor position sensor interface	EnDat® 22
Rotor position sensor measuring principle	Inductive
Rotor position sensor resolution	19 bit
Brake holding torque	18 Nm
Brake DC operating voltage	24 V
Brake power consumption	15.6 W
Brake mass moment of inertia	1.2 kgcm²
Switching cycles, holding brake	5 million idle actuations (without friction work!)
MTTF, subcomponent	76 years, rotor position sensor 4469 years, holding brake
MTTFd, subcomponent	152 years, rotor position sensor