Servo motor
EMMS-AS-190-S-HS-AS

Part number: 1584908



Data sheet

Feature	Value
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
Electrical connection technology	Plug
Note on materials	RoHS-compliant
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) 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 As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK instructions for electrical equipment To UK RoHS instructions
Nominal operating voltage DC	565 V
DC nominal voltage	565 V
Type of winding switch	Star inside
Number of pole pairs	6
Stall torque	26.2 Nm
Nominal torque	17.47 Nm
Peak torque	80 Nm
Nominal rotary speed	3000 1/min
Max. rotational speed	5300 1/min
Motor nominal power	5490 W
Motor nominal current	14.43 A
Peak current	77.2 A
Motor constants	1.211 Nm/A
Voltage constant, phase-to-phase	75.4 mVmin
Phase-phase winding resistance	0.283 Ohm
Winding inductance phase-phase	3.07 mH
Total output inertia moment	51.9 kgcm²

Feature	Value
Product weight	20860 g
Permissible axial shaft load	250 N
Permissible radial shaft load	940 N
Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor interface	EnDat® 21
Rotor position sensor measuring principle	Inductive
Rotor position sensor resolution	18 bit
MTTF, subcomponent	76 years, rotor position sensor
MTTFd, subcomponent	152 years, rotor position sensor
Energy efficiency	ENEFF (CN) / Class 2