

Servo motor EMMS-AS-190-SK-HS-AS

Part number: 1584915

FESTO



Data sheet

Feature	Value
Number of pole pairs	6
Type code	EMMS-AS
Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor interface	EnDat® 21
Rotor position sensor measuring principle	Inductive
Temperature monitoring	PTC resistor
Max. rotational speed	5300 1/min
Nominal rotary speed	3000 1/min
Insulation protection class	F
Motor constants	1.211 Nm/A
Nominal operating voltage DC	565 V
Motor nominal power	5490 W
DC nominal voltage	565 V
Motor nominal current	14.43 A
Rotor position sensor resolution	18 bit
Phase-phase winding resistance	0.283 Ohm
Winding inductance phase-phase	3.07 mH
Type of winding switch	Star inside
Peak current	77.2 A
Voltage constant, phase-to-phase	75.4 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	51.9 kgcm ²
Nominal torque	17.47 Nm
Peak torque	80 Nm
Stall torque	26.2 Nm
Permissible axial shaft load	250 N
Permissible radial shaft load	940 N

Feature	Value
MTTF, subcomponent	76 years, rotor position sensor
MTTFd, subcomponent	152 years, rotor position sensor
Product weight	20860 g
Electrical connection technology	Plug
Note on materials	RoHS-compliant
Conforms to standard	IEC 60034
Featherkey shaft design	DIN 6885 A 10 x 8 x 40