

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

Part number: 1584918

FESTO



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 10 x 8 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
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	55.7 kgcm ²

Feature	Value
Product weight	21960 g
Permissible axial shaft load	250 N
Permissible radial shaft load	940 N
Rotor position sensor	Absolute encoder, multi-turn
Rotor position sensor interface	EnDat® 21
Rotor position sensor measuring principle	Inductive
Rotor position sensor resolution	19 bit
Brake holding torque	30 Nm
Brake DC operating voltage	24 V
Brake power consumption	17 W
Brake mass moment of inertia	3.8 kgcm ²
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
Energy efficiency	ENEFF (CN) / Class 2