

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

Part number: 1584912

FESTO



Data sheet

Feature	Value
Number of pole pairs	6
Type code	EMMS-AS
Rotor position sensor	Absolute encoder, multi-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
Brake DC operating voltage	24 V
Insulation protection class	F
Brake power consumption	17 W
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	19 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	55.7 kgcm ²
Brake holding torque	30 Nm
Brake mass moment of inertia	3.8 kgcm ²
Nominal torque	17.47 Nm

Feature	Value
Peak torque	80 Nm
Stall torque	26.2 Nm
Permissible axial shaft load	250 N
Permissible radial shaft load	940 N
MTTF, subcomponent	76 years, rotor position sensor 4469 years, holding brake
MTTFd, subcomponent	152 years, rotor position sensor
Switching cycles, holding brake	5 million idle actuations (without friction work!)
Product weight	21960 g
Electrical connection technology	Plug
Note on materials	RoHS-compliant
Conforms to standard	IEC 60034