

Servo motor EMME-AS-100-S-HS-AM

Part number: 2103468

FESTO



Data sheet

Feature	Value
Number of pole pairs	3
Type code	EMME-AS
Rotor position sensor	Absolute encoder, multi-turn
Rotor position sensor interface	HIPERFACE®
Rotor position sensor measuring principle	Capacitive
Max. rotational speed	3910 1/min
Nominal rotary speed	3000 1/min
Continuous stall current	3.4 A
Insulation protection class	F
Motor constants	1.6 Nm/A
Nominal operating voltage DC	565 V
Motor nominal power	1500 W
DC nominal voltage	565 V
Motor nominal current	3 A
Typical rotor position sensor resolution	12 bit
Rotor position encoder, typical angular accuracy	20 arcmin
Rotor position encoder, sinusoidal/cosinusoidal periods per revolution	16
Phase-phase winding resistance	4.6 Ohm
Winding inductance phase-phase	15.5 mH
Type of winding switch	Star inside
Peak current	13.6 A
Voltage constant, phase-to-phase	102.2 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)	0 - No corrosion stress
Storage temperature	-20 °C ... 70 °C
Relative air humidity	0 - 90 %
Degree of protection	IP21
Ambient temperature	-10 °C ... 40 °C
Certification	RCM compliance mark c UL us - Recognized (OL)
Total output inertia moment	4.84 kgcm ²
Nominal torque	4.8 Nm
Peak torque	22.4 Nm
Stall torque	5.6 Nm

Feature	Value
Permissible axial shaft load	130 N
Permissible radial shaft load	650 N
MTTFd, subcomponent	271 years, rotor position sensor
Product weight	6250 g
Electrical connection technology	Plug
Note on materials	Contains paint-wetting impairment substances RoHS-compliant
Conforms to standard	IEC 60034