

# servo motor EMMS-AS-190-SK-HS-AMB-S1

Part number: 1584931

FESTO

Without gear unit.



## Data sheet

Feature	Value
Ambient temperature	-10 ... 40 °C
Storage temperature	-20 ... 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
Protection class	IP65
Shaft design Featherkey	DIN 6885 A 10 x 8 x 40
Electrical connector system	Plug
Materials note	Conforms to RoHS
Corrosion resistance classification CRC	2 - Moderate corrosion stress
Authorisation	RCM Mark c UL us - Recognized (OL)
CE mark (see declaration of conformity)	to EU directive for EMC to EU directive low-voltage devices
Nominal operating voltage DC	565 V
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Type of winding switch	Star inside
Number of pole pairs	6
Standstill torque	26.2 Nm
Nominal torque	17.47 Nm
Peak torque	80 Nm
Nominal rotary speed	3,000 1/min
Max. speed	5,300 1/min
Nominal motor power	5,490 W
Nominal motor current	14.43 A
Peak current	77.2 A
Motor constant	1.211 Nm/A
Voltage constant, phase-to-phase	75.4 mVmin
Phase-phase winding resistance	0.283 Ohm
Phase-phase winding inductance	3.07 mH
Overall mass moment of inertia at power take-off	55.7 kgcm <sup>2</sup>
Product weight	21,960 g
Permissible axial shaft load	250 N
Permissible radial shaft load	940 N
Rotor position sensor	Absolute multi-turn encoder
Rotary position encoder interface	EnDat 22
Rotary position encoder measuring principle	Inductive
Rotary position encoder resolution	19 Bit
Brake holding torque	30 Nm
Operating voltage DC for brake	24 V
Power consumption, brake	17 W

Feature	Value
Mass moment of inertia of brake	3.8 kgcm <sup>2</sup>
Switching cycles, holding brake	5 million idle actuations (without work of friction!)
MTTF, subcomponent	76 years, rotary position encoder 4469 years, holding brake
MTTFd, subcomponent	152 years, rotary position encoder