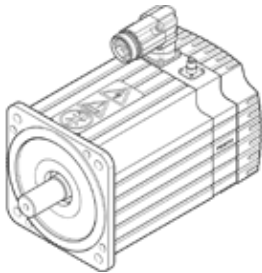# servo motor
EMMS-AS-190-M-HS-AMB-S1

Part number: 1584949
Product to be discontinued

Without gear unit.

FESTO

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
Electrical connector system	Plug
Materials note	Conforms to RoHS
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B2-L
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
	in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for electrical equipment
	To UK instructions for EMC
	To UK RoHS instructions
Nominal operating voltage DC	565 V
Nominal voltage DC	565 V
Type of winding switch	Star inside
Number of pole pairs	6
Standstill torque	38.77 Nm
Nominal torque	22.63 Nm
Peak torque	120 Nm
Nominal rotary speed	2,900 1/min
Max. speed	4,060 1/min
Nominal motor power	6,880 W
Nominal motor current	14.24 A
Peak current	88.2 A
Motor constant	1.589 Nm/A
Voltage constant, phase-to-phase	98.6 mVmin
Phase-phase winding resistance	0.265 Ohm
Phase-phase winding inductance	3.38 mH
Overall mass moment of inertia at power take-off	80.6 kgcm2
Product weight	27,960 g
Permissible axial shaft load	250 N
Permissible radial shaft load	1,080 N
Rotor position sensor	Absolute multi-turn encoder
Rotary position encoder interface	EnDat 22
Rotary position encoder measuring principle	Inductive
Rotor position encoder resolution	19 Bit

Feature	Value
Brake holding torque	30 Nm
Operating voltage DC for brake	24 V
Power consumption, brake	17 W
Mass moment of inertia of brake	3.8 kgcm2
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
Energy efficiency	ENEFF (CN) / Class 2