

# Servomotor EMMS-AS-190-MK-HS-AM-S1

Part number: 1584953  
Product to be discontinued

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
PWIS conformity	VDMA24364-B2-L
Authorization	RCM Mark c UL us - Recognized (OL)
CE symbol (see declaration of conformity)	according to EU-EMV guideline according to EU low voltage guideline 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
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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	76.8 kgcm <sup>2</sup>
Product weight	26,860 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

<b>Feature</b>	<b>Value</b>
Rotary position encoder measuring principle	Inductive
Rotor position encoder resolution	19 Bit
MTTF, subcomponent	76 years, rotary position encoder
MTTFd, subcomponent	152 years, rotary position encoder
Energy efficiency	ENEFF (CN) / Class 2