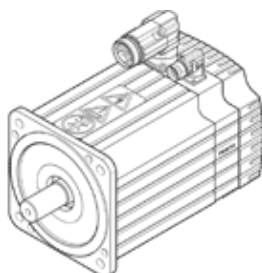


# servo motor EMMS-AS-190-M-HS-ARB-S1

Part number: 1584951

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
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
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 mV/min
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 kgcm <sup>2</sup>
Product weight	28,200 g
Permissible axial shaft load	250 N
Permissible radial shaft load	1,080 N
Rotor position sensor	Resolver
Rotary position encoder interface	SIN/COS analogue signal
Rotary position encoder measuring principle	Inductive
Brake holding torque	30 Nm
Operating voltage DC for brake	24 V
Power consumption, brake	17 W
Mass moment of inertia of brake	3.6 kgcm <sup>2</sup>
Switching cycles, holding brake	5 million idle actuations (without work of friction!)
MTTF, subcomponent	114 years, rotary position encoder 4469 years, holding brake
MTTFd, subcomponent	228 years, rotary position encoder