

# servo motor EMMS-AS-70-M-HV-RS-S1

Part number: 1704819

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	4
Standstill torque	2.52 Nm
Nominal torque	2.19 Nm
Peak torque	8.55 Nm
Nominal rotary speed	5,000 1/min
Max. speed	5,560 1/min
Nominal motor power	1,146 W
Nominal motor current	1.84 A
Peak current	8.3 A
Motor constant	1.189 Nm/A
Voltage constant, phase-to-phase	71.83 mVmin
Phase-phase winding resistance	13.007 Ohm
Phase-phase winding inductance	24.523 mH
Overall mass moment of inertia at power take-off	0.611 kgcm <sup>2</sup>
Product weight	2,700 g
Permissible axial shaft load	75 N
Permissible radial shaft load	200 N
Rotor position sensor	Absolute single turn encoder
Rotary position encoder interface	EnDat 22
Rotary position encoder measuring principle	Inductive
Rotary position encoder resolution	18 Bit
MTTF, subcomponent	76 years, rotary position encoder
MTTFd, subcomponent	152 years, rotary position encoder