

# servo motor EMMS-AS-70-SK-HV-RR-S1

Part number: 1704795

FESTO

Without gear unit.



## Data sheet

Feature	Value
Ambient temperature	-40 ... 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 4 x 4 x 16
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	4
Standstill torque	1.62 Nm
Nominal torque	1.28 Nm
Peak torque	5.17 Nm
Nominal rotary speed	7,400 1/min
Max. speed	8,200 1/min
Nominal motor power	992 W
Nominal motor current	1.6 A
Peak current	7.5 A
Motor constant	0.798 Nm/A
Voltage constant, phase-to-phase	48.72 mVmin
Phase-phase winding resistance	11.935 Ohm
Phase-phase winding inductance	19.741 mH
Overall mass moment of inertia at power take-off	0.39 kgcm <sup>2</sup>
Product weight	2,190 g
Permissible axial shaft load	75 N
Permissible radial shaft load	150 N
Rotor position sensor	Resolver
Rotary position encoder interface	SIN/COS analogue signal
Rotary position encoder measuring principle	Inductive
MTTF, subcomponent	80 years, rotary position encoder
MTTFd, subcomponent	160 years, rotary position encoder