

# servo motor EMMS-AS-140-LK-HV-RRB

Part number: 1574687

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	IP54
Shaft design Featherkey	DIN 6885 A 8 x 7 x 40
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 voltage DC	565 V
Type of winding switch	Star inside
Number of pole pairs	6
Standstill torque	25.5 Nm
Nominal torque	17.41 Nm
Peak torque	67.5 Nm
Nominal rotary speed	2,800 1/min
Max. speed	3,830 1/min
Nominal motor power	5,110 W
Nominal motor current	9.96 A
Peak current	51.5 A
Motor constant	1.75 Nm/A
Voltage constant, phase-to-phase	104.41 mV/min
Phase-phase winding resistance	0.586 Ohm
Phase-phase winding inductance	4.65 mH
Overall mass moment of inertia at power take-off	19.4 kgcm <sup>2</sup>
Product weight	17,240 g
Permissible axial shaft load	200 N
Permissible radial shaft load	1,060 N
Rotor position sensor	Resolver
Rotary position encoder interface	SIN/COS analogue signal
Rotary position encoder measuring principle	Inductive
Brake holding torque	18 Nm
Operating voltage DC for brake	24 V
Power consumption, brake	15.6 W
Mass moment of inertia of brake	1 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