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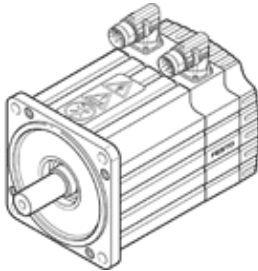# EMMS-AS-140-SK-HV-RRB

Part number: 1574639
Product to be discontinued

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
PWIS conformity	VDMA24364-B2-L
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 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 voltage DC	565 V
Type of winding switch	Star inside
Number of pole pairs	6
Standstill torque	11.08 Nm
Nominal torque	7.7 Nm
Peak torque	27 Nm
Nominal rotary speed	3,900 1/min
Max. speed	4,510 1/min
Nominal motor power	3,140 W
Nominal motor current	5.23 A
Peak current	24.4 A
Motor constant	1.47 Nm/A
Voltage constant, phase-to-phase	88.71 mVmin
Phase-phase winding resistance	1.6 Ohm
Phase-phase winding inductance	9.01 mH
Overall mass moment of inertia at power take-off	9 kgcm2
Product weight	10,640 g
Permissible axial shaft load	200 N
Permissible radial shaft load	780 N
Rotor position sensor	Resolver
Rotary position encoder interface	SIN/COS analogue signal
Rotary position encoder measuring principle	Inductive

Feature	Value
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 kgcm2
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