

# Servo motor EMMS-AS-140-SK-HV-RM-S1

Part number: 1574647

FESTO



## Data sheet

Feature	Value
Type code	EMMS-AS
Ambient temperature	-10 °C ... 40 °C
Storage temperature	-20 °C ... 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
Degree of protection	IP65
Featherkey shaft design	DIN 6885 A 8 x 7 x 40
Electrical connection technology	Plug
Note on materials	RoHS-compliant
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS conformity	VDMA24364-B2-L
Certification	RCM compliance mark c UL us - Recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU low voltage directive
DC nominal voltage	565 V
Type of winding switch	Star inside
Number of pole pairs	6
Stall torque	11.08 Nm
Nominal torque	7.7 Nm
Peak torque	27 Nm
Nominal rotary speed	3900 1/min
Max. rotational speed	4510 1/min
Motor nominal power	3140 W
Motor nominal current	5.23 A
Peak current	24.4 A
Motor constants	1.47 Nm/A
Voltage constant, phase-to-phase	88.71 mVmin
Phase-phase winding resistance	1.6 Ohm
Winding inductance phase-phase	9.01 mH
Total output inertia moment	8.189 kgcm <sup>2</sup>
Product weight	9600 g

<b>Feature</b>	<b>Value</b>
Permissible axial shaft load	200 N
Permissible radial shaft load	780 N
Rotor position sensor	Absolute encoder, multi-turn
Rotor position sensor interface	EnDat® 22
Rotor position sensor measuring principle	Inductive
Rotor position sensor resolution	19 bit
MTTF, subcomponent	76 years, rotor position sensor
MTTFd, subcomponent	152 years, rotor position sensor