

# Servomotor EMMS-AS-140-L-HS-RMB-S1

Part number: 1574667  
Product to be discontinued

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
PWIS conformity	VDMA24364-B2-L
Authorization	RCM Mark c UL us - Recognized (OL)
CE symbol (see declaration of conformity)	according to EU-EMV guideline according to EU low voltage guideline 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	25.6 Nm
Nominal torque	21.12 Nm
Peak torque	48.8 Nm
Nominal rotary speed	2,000 1/min
Max. speed	2,460 1/min
Nominal motor power	4,420 W
Nominal motor current	7.8 A
Peak current	20 A
Motor constant	2.72 Nm/A
Voltage constant, phase-to-phase	162.39 mV/min
Phase-phase winding resistance	1.41 Ohm
Phase-phase winding inductance	13.44 mH
Overall mass moment of inertia at power take-off	20.108 kgcm <sup>2</sup>
Product weight	17,000 g
Permissible axial shaft load	200 N
Permissible radial shaft load	1,060 N
Rotor position sensor	Absolute multi-turn encoder
Rotary position encoder interface	EnDat 22
Rotary position encoder measuring principle	Inductive
Rotary position encoder resolution	19 Bit
Brake holding torque	18 Nm

<b>Feature</b>	<b>Value</b>
Operating voltage DC for brake	24 V
Power consumption, brake	15.6 W
Mass moment of inertia of brake	1.2 kgcm <sup>2</sup>
Switching cycles, holding brake	5 million idle actuations (without work of friction!)
MTTF, subcomponent	76 years, rotary position encoder 4469 years, holding brake
MTTFd, subcomponent	152 years, rotary position encoder
Energy efficiency	ENEFF (CN) / Class 2