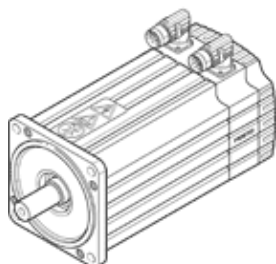


# servo motor EMMS-AS-140-L-HS-RRB

Part number: 1574657  
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
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	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	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

Feature	Value
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
Energy efficiency	ENEFF (CN) / Class 2