

# Servomotor EMMS-AS-100-M-HS-RRB-S1

Part number: 1562951

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	IP65
Electrical connector system	Plug
Materials note	Conforms to RoHS
Corrosion resistance classification CRC	2 - Moderate corrosion stress
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
Nominal operating voltage DC	565 V
Nominal voltage DC	565 V
Type of winding switch	Star inside
Number of pole pairs	6
Standstill torque	8.01 Nm
Nominal torque	5.63 Nm
Peak torque	22.1 Nm
Nominal rotary speed	3,400 1/min
Max. speed	4,030 1/min
Nominal motor power	2,000 W
Nominal motor current	3.4 A
Peak current	15 A
Motor constant	1.652 Nm/A
Voltage constant, phase-to-phase	99.15 mVmin
Phase-phase winding resistance	3.25 Ohm
Phase-phase winding inductance	12.3 mH
Overall mass moment of inertia at power take-off	5.24 kgcm <sup>2</sup>
Product weight	7,740 g
Permissible axial shaft load	150 N
Permissible radial shaft load	570 N
Rotor position sensor	Resolver
Rotary position encoder interface	SIN/COS analogue signal
Rotary position encoder measuring principle	Inductive
Brake holding torque	9 Nm
Operating voltage DC for brake	24 V
Power consumption, brake	18 W
Mass moment of inertia of brake	0.54 kgcm <sup>2</sup>
Switching cycles, holding brake	10 million idle actuations (without friction work)
MTTF, subcomponent	114 years, rotary position encoder 3356 years, holding brake
MTTFd, subcomponent	228 years, rotary position encoder