

# servo motor EMMS-AS-100-LK-HV-RSB-S1

Part number: 1563002

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
Shaft design Featherkey	DIN 6885 A 6 x 6 x 32
Electrical connector system	Plug
Materials note	Conforms to RoHS
Corrosion resistance classification CRC	2 - Moderate corrosion stress
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
Nominal operating voltage DC	565 V
Nominal voltage DC	565 V
Type of winding switch	Star inside
Number of pole pairs	6
Standstill torque	10.93 Nm
Nominal torque	6.29 Nm
Peak torque	35.4 Nm
Nominal rotary speed	3,400 1/min
Max. speed	4,040 1/min
Nominal motor power	2,240 W
Nominal motor current	3.79 A
Peak current	24.8 A
Motor constant	1.66 Nm/A
Voltage constant, phase-to-phase	98.93 mVmin
Phase-phase winding resistance	1.98 Ohm
Phase-phase winding inductance	7.76 mH
Overall mass moment of inertia at power take-off	7.21 kgcm <sup>2</sup>
Product weight	9,390 g
Permissible axial shaft load	150 N
Permissible radial shaft load	650 N
Rotor position sensor	Absolute single turn encoder
Rotary position encoder interface	EnDat 22
Rotary position encoder measuring principle	Inductive
Rotor position encoder resolution	18 Bit
Brake holding torque	9 Nm
Operating voltage DC for brake	24 V
Power consumption, brake	18 W

<b>Feature</b>	<b>Value</b>
Mass moment of inertia of brake	0.61 kgcm <sup>2</sup>
Switching cycles, holding brake	10 million idle actuations (without friction work)
MTTF, subcomponent	76 years, rotary position encoder 3356 years, holding brake
MTTFd, subcomponent	152 years, rotary position encoder