

# servo motor EMME-AS-80-M-LS-AM

Part number: 2093169  
Product to be discontinued

FESTO

Without gearing, without brake.



## Data sheet

Feature	Value
Ambient temperature	-10 ... 40 °C
Storage temperature	-20 ... 70 °C
Relative air humidity	0 - 90 %
Conforms to standard	IEC 60034
Insulation protection class	F
Rating class according to EN 60034-1	S1
Protection class	IP21
Electrical connector system	Plug
Materials note	Conforms to RoHS
Corrosion resistance classification CRC	0 - No corrosion stress
PWIS conformity	VDMA24364 zone III
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 operating voltage DC	360 V
Nominal voltage DC	360 V
Type of winding switch	Star inside
Number of pole pairs	3
Standstill torque	3.5 Nm
Nominal torque	3.2 Nm
Peak torque	14 Nm
Nominal rotary speed	3,000 1/min
Max. speed	4,627 1/min
Nominal motor power	1,000 W
Continuous open-circuit current	3.9 A
Nominal motor current	3.7 A
Peak current	15.6 A
Motor constant	0.865 Nm/A
Voltage constant, phase-to-phase	55 mVmin
Phase-phase winding resistance	2.8 Ohm
Phase-phase winding inductance	7.43 mH
Overall mass moment of inertia at power take-off	1.93 kgcm <sup>2</sup>
Product weight	3,700 g
Permissible axial shaft load	72 N
Permissible radial shaft load	360 N
Rotor position sensor	Absolute multi-turn encoder
Rotary position encoder interface	HIPERFACE®
Rotary position encoder measuring principle	Capacitive
Rotor position encoder, sinusoidal/cosinusoidal periods per revolution	16
Rotor position encoder, typical resolution	12 Bit
Rotor position encoder, typical angular accuracy	20 arcmin
MTTFd, subcomponent	271 years, rotary position encoder
Energy efficiency	ENEFF (CN) / Class 2