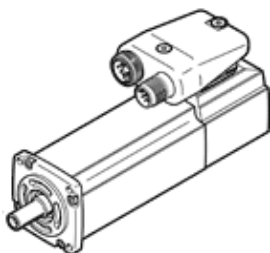


# servo motor EMME-AS-40-S-LV-AMB

Part number: 2082431

FESTO

Without gear unit/with 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	2
Standstill torque	0.18 Nm
Nominal torque	0.12 Nm
Peak torque	0.7 Nm
Nominal rotary speed	9,000 1/min
Max. speed	10,000 1/min
Nominal motor power	110 W
Continuous open-circuit current	0.8 A
Nominal motor current	0.7 A
Peak current	3.2 A
Motor constant	0.171 Nm/A
Voltage constant, phase-to-phase	13.5 mVmin
Phase-phase winding resistance	25.6 Ohm
Phase-phase winding inductance	9.95 mH
Overall mass moment of inertia at power take-off	0.055 kgcm <sup>2</sup>
Product weight	650 g
Permissible axial shaft load	12 N
Permissible radial shaft load	105 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

Feature	Value
Rotor position encoder, typical resolution	12 Bit
Rotor position encoder, typical angular accuracy	20 arcmin
Brake holding torque	0.4 Nm
Operating voltage DC for brake	24 V
Power consumption, brake	8 W
Mass moment of inertia of brake	0.014 kgcm <sup>2</sup>
Switching cycles, holding brake	5 million idle actuations (without work of friction!)
MTTF, subcomponent	371 years, holding brake
MTTFd, subcomponent	271 years, rotary position encoder