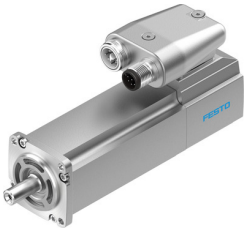
Servo motor
EMME-AS-40-S-LV-ASB

Part number: 2082430



General operating condition

Data sheet

Feature	Value
Ambient temperature	-10 °C ... 40 °C
Storage temperature	-20 °C ... 70 °C
Relative air humidity	0 - 90 %
Conforms to standard	IEC 60034
Insulation protection class	F
Rating class according to EN 60034-1	S1
Degree of protection	IP21
Electrical connection technology	Plug
Note on materials	RoHS-compliant
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Certification	RCM compliance mark c UL us - Recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU low voltage directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions To UK instructions for electrical equipment
Nominal operating voltage DC	360 V
DC nominal voltage	360 V
Type of winding switch	Star inside
Number of pole pairs	2
Stall torque	0.18 Nm
Nominal torque	0.12 Nm
Peak torque	0.7 Nm
Nominal rotary speed	9000 rpm
Max. rotational speed	10000 rpm
Motor nominal power	110 W
Continuous stall current	0.8 A
Motor nominal current	0.7 A
Peak current	3.2 A
Motor constants	0.171 Nm/A
Voltage constant, phase-to-phase	13.5 mVmin
Phase-phase winding resistance	25.6 Ohm
Winding inductance phase-phase	9.95 mH
Total output inertia moment	0.055 kgcm²

Feature	Value
Product weight	650 g
Permissible axial shaft load	12 N
Permissible radial shaft load	105 N
Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor interface	HIPERFACE®
Rotor position sensor measuring principle	Capacitive
Rotor position encoder, sinusoidal/cosinusoidal periods per revolution	16
Typical rotor position sensor resolution	12 bit
Rotor position encoder, typical angular accuracy	20 arcmin
Brake holding torque	0.4 Nm
Brake DC operating voltage	24 V
Brake power consumption	8 W
Brake mass moment of inertia	0.014 kgcm²
Switching cycles, holding brake	5 million idle actuations (without friction work!)
MTTF, subcomponent	371 years, holding brake
MTTFd, subcomponent	340 years, rotor position sensor