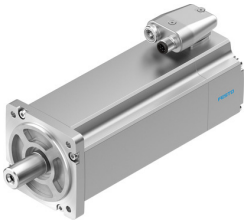
Servo motor
EMME-AS-80-SK-LS-AMXB

Part number: 4267583



Data sheet

Feature	Value
Short type code	EMME-AS
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 as per EN 60034-1	S1
Degree of protection	IP21
Featherkey shaft type	DIN 6885 A 6 x 6 x 22
Electrical connector system	Plug
Note on materials	RoHS-compliant
Corrosion resistance class CRC	0 - No corrosion stress
LABS-Conformity	VDMA24364 zone III
Approval	RCM trademark c UL us - Recognized (OL)
CE mark (see declaration of conformity)	To EU EMC Directive To EU Low Voltage Directive
Nominal operating voltage DC	360 V
Nominal voltage DC	360 V
Type of winding switch	Star inside
Number of pole pairs	3
Standstill torque	2.8 Nm
Nominal torque	2.4 Nm
Peak torque	11.2 Nm
Nominal rotary speed	3000 rpm
Max. rotational speed	4690 rpm
Nominal power rating of motor	750 W
Continuous stall current	3.1 A
Nominal motor current	2.6 A
Peak current	12.4 A
Motor constant	0.923 Nm/A
Voltage constant, phase-to-phase	54.3 mVmin
Phase-phase winding resistance	4.6 Ohm
Phase-phase winding inductance	9.46 mH
Total mass moment of inertia of output	1.68 kgcm²

Feature	Value
Product weight	3700 g
Permissible axial shaft load	70 N
Permissible radial shaft load	350 N
Rotor position sensor	Absolute multi-turn safety encoder
Rotor position encoder interface	HIPERFACE®
Rotor position sensor, encoder measuring principle	Optical
Rotor pos. enc., sin/cosin p/r	128
Rotor pos. encoder, typ. res.	15 bit
Rot. pos. enc., typ. ang. acc.	20 arcmin
Brake holding torque	4.5 Nm
Operating voltage DC for brake	24 V
Power consumption, brake	12 W
Mass moment of inertia of brake	0.222 kgcm²
Switching cycles holding brake	5 million idle actuations (without friction work!)
Safety Integrity Level (SIL), subcomponent	SIL 2, rotor position sensor SILCL 2, rotor position sensor
Performance Level, subcomponent	Category 3, performance level d, rotor position encoder
PFHd, subcomponent	1.3 x 10E-8, rotor position sensor
Duration of use Tm, subcomponent	20 years, rotor position sensor
Mean time to failure (MTTF), subcomponent	797 years, holding brake
Mean time to dangerous failure (MTTFd), subcomponent	874 years, rotor position sensor
Energy efficiency	ENEFF (CN) / Class 2