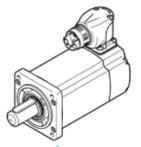
Servomotor EMMT-AS-80-M-HS-RMB Part number: 5255440







Data sheet

-15 40 °C
. 2006 11 1 11 1 20/100
up to 80°C with derating -1.5%/°C
4,000 m
As of 1,000 m, only with derating of -1.0% per 100 m
-20 70 °C
0 - 90 %
IEC 60034
F
155 ℃
S1
Digital motor temperature transmission via EnDat® 2.2
IM B5
IM V1
IM V3
Any
IP40
IP40 motor shaft without RWDR
IP65 motor shaft with RWDR
IP67 for motor housing with connection technology
N S
G 2,5
<1.0% of peak torque
20,000 h
80P
Hybrid plugs
M23x1
15
2
Conforms to RoHS
0 - No corrosion stress
VDMA24364 zone III
Transport application test at severity level 2 in accordance with FN
942017-4 and EN 60068-2-6
Shock test with severity level 2 in accordance with FN 942017-5 and EN
60068-2-27
RCM Mark
c UL us - Recognized (OL)
according to EU-EMV guideline
according to EU low voltage guideline
in accordance with EU RoHS directive
To UK instructions for electrical equipment
To UK instructions for EMC
To UK RoHS instructions
UL E342973
680 V
Star inside



Feature	Value
Number of pole pairs	5
Standstill torque	2.6 Nm
Nominal torque	2.2 Nm
Peak torque	6.4 Nm
Nominal rotary speed	3,000 1/min
Max. speed	6,800 1/min
Max. mechanical speed	14,000 1/min
Nominal motor power	690 W
Continuous open-circuit current	2.6 A
Nominal motor current	2.2 A
Peak current	9 A
Motor constant	1 Nm/A
Standstill torque constant	1.17 Nm/A
Voltage constant, phase-to-phase	70.7 mVmin
Phase-phase winding resistance	7.43 Ohm
Phase-phase winding inductance	31.8 mH
Winding longitudinal inductivity Ld (phase)	19.4 mH
Winding cross inductivity Lq (phase)	23.8 mH
Electric time constant	6.4 ms
Thermal time constant	45 min
Thermal resistance	0.78 K/W
Measuring flange	250 x 250 x 15 mm, steel
Overall mass moment of inertia at power take-off	1.285 kgcm2
Product weight	3,360 g
Permissible axial shaft load	120 N
Permissible radial shaft load	620 N
Rotor position sensor	Absolute multi-turn encoder
Rotor position sensor, manufacturer designation	EQI 1131
Rotor position sensor, absolute detectable revolutions	4,096
Rotary position encoder interface	EnDat 22
Rotary position encoder measuring principle	Inductive
Rotor position sensor, DC operating voltage	5 V
Rotor position sensor, DC operating voltage range	3.6 14 V
Rotor position sensor, position values per revolution	524,288
Rotor position encoder resolution	19 Bit
Rotor position sensor, system accuracy of angle measurement	-120 120 arcsec
Brake holding torque	4.5 Nm
Operating voltage DC for brake	24 V
Brake current consumption	0.5 A
Power consumption, brake	12 W
Brake coil resistance	48 Ohm
Brake coil inductivity	1,000 mH
Brake separation time	<= 55 ms
Brake closing time	<= 15 ms
DC brake response delay	<= 3 ms
Max. brake no-load speed	10,000 1/min
Brake max. friction work	8,200 J
Mass moment of inertia of brake	0.249 kgcm2
Switching cycles, holding brake	10 million idle actuations (without friction work)
MTTF, subcomponent	190 years, rotor position sensor
Energy efficiency	ENEFF (CN) / Class 2
Lifetgy emiliency	LIVELLE (CIV) / Class 2