

Product datasheet

Characteristics

BMI0702P36F

servo motor BMI 3-phase - keyed IP65 single turn
- 32768 p/t - brake



Main

Range compatibility	Lexium 32i
Product or component type	Servo motor with power stage
Device short name	BMI

Complementary

Maximum mechanical speed	8000 rpm
[Us] rated supply voltage	208...480 V - 15...10 %
Supply voltage limits	208...480 V
Network number of phases	Three phase
Supply frequency	50/60 Hz - 5...5 %
Network frequency limits	47.5...63 Hz
EMC filter	Integrated
Continuous output current	2 A at 8 kHz
Output current 3s peak	6 A at 400 V for 3 s
Continuous stall current	2 A
Continuous stall torque	2.48 N.m at 208...480 V three phase
Peak stall torque	6.8 N.m at 208 V three phase 6.8 N.m at 400 V three phase 6.8 N.m at 480 V three phase
Nominal output power	400 W at 208 V three phase 800 W at 400 V three phase 900 W at 480 V three phase
Nominal torque	2.4 N.m at 208 V three phase 2.2 N.m at 400 V three phase 2 N.m at 480 V three phase
Nominal speed	1800 rpm at 208 V three phase 3600 rpm at 400 V three phase 4400 rpm at 480 V three phase
Maximum current Irms	9.6 A at 208 V, three phase 9.6 A at 400 V, three phase

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

9.6 A at 480 V, three phase

Product compatibility	Drive control unit LXM32i CANopen Drive control unit LXM32i EtherCAT
Shaft end	Keyed
Second shaft	Without second shaft end
Shaft diameter	11 mm
Shaft length	23 mm
Key width	4 mm
Feedback type	Absolute single turn SinCos Hiperface
Speed feedback resolution	32768 points/turn
Holding brake	With
Holding torque	3 N.m holding brake
Mounting support	International standard flange
Motor flange size	70 mm
Electrical connection	Printed circuit board connector
Torque constant	1.15 N.m/A at 20 °C
Back emf constant	77.18 V/krpm at 20 °C
Number of motor poles	10
Rotor inertia	1.24 kg.cm ²
Stator resistance	8.89 Ohm at 20 °C
Stator inductance	25.75 mH at 20 °C
Stator electrical time constant	2.9 ms at 20 °C
Maximum radial force Fr	710 N at 1000 rpm 560 N at 2000 rpm 490 N at 3000 rpm 450 N at 4000 rpm 410 N at 5000 rpm 390 N at 6000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	5 W
Type of cooling	Natural convection
Length	306 mm
Number of motor stacks	2
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	75...82 mm
Distance shaft shoulder-flange	2.5 mm

Environment

IP degree of protection	IP65
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Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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