



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	115...230 V - 15...10 %
Supply voltage limits	100...240 V
Network number of phases	Single phase
Supply frequency	50/60 Hz - 5...5 %
Network frequency limits	47.5...63 Hz
EMC filter	Integrated
Continuous output current	3.5 A at 8 kHz
Output current 3s peak	10.5 A at 230 V for 3 s
Continuous stall current	3.5 A
Continuous stall torque	3.4 N.m at 115...230 V single phase
Peak stall torque	8.6 N.m at 115 V single phase 8.6 N.m at 230 V single phase
Nominal output power	700 W at 230 V single phase 400 W at 115 V single phase
Nominal torque	2.9 N.m at 115 V single phase 2.2 N.m at 230 V single phase
Nominal speed	3200 rpm at 230 V single phase 1400 rpm at 115 V single phase
Maximum current Irms	17.8 A at 115 V, single phase 17.8 A at 230 V, single phase
Product compatibility	Drive control unit LXM32i CANopen Drive control unit LXM32i EtherCAT
Shaft end	Keyed

Second shaft	Without second shaft end
Shaft diameter	14 mm
Shaft length	30 mm
Key width	5 mm
Feedback type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard flange
Motor flange size	70 mm
Electrical connection	Printed circuit board connector
Torque constant	0.81 N.m/A at 20 °C
Back emf constant	54.44 V/krpm at 20 °C
Number of motor poles	10
Rotor inertia	1.67 kg.cm ²
Stator resistance	2.58 Ohm at 20 °C
Stator inductance	2.28 mH at 20 °C
Stator electrical time constant	0.88 ms at 20 °C
Maximum radial force Fr	730 N at 1000 rpm 580 N at 2000 rpm 510 N at 3000 rpm 460 N at 4000 rpm 430 N at 5000 rpm 400 N at 6000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	300 mm
Number of motor stacks	3
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	Shaft: IP54 Housing: 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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