

BMH2052P31F2A

servo motor BMH, Lexium 32, 62.5Nm,
3800rpm, keyed shaft, with brake, IP65, IP67,
128bit encoder



Main

Device short name	BMH
Product or Component Type	Servo motor
Maximum mechanical speed	3800 rpm
Continuous stall torque	553.2 Lbf.in (62.5 N.m) LXM32.D72N4 24 A, 400 V, three phase 553.2 lbf.in (62.5 N.m) LXM32.D72N4 24 A, 480 V, three phase
Peak stall torque	1504.6 Lbf.in (170 N.m) LXM32.D72N4 24 A, 400 V, three phase 1504.6 lbf.in (170 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal output power	6500 W LXM32.D72N4 24 A, 400 V, three phase 6500 W LXM32.D72N4 24 A, 480 V, three phase
Nominal torque	368.2 Lbf.in (41.6 N.m) LXM32.D72N4 24 A, 400 V, three phase 368.2 lbf.in (41.6 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal speed	1500 rpm LXM32.D72N4 24 A, 400 V, three phase 1500 rpm LXM32.D72N4 24 A, 480 V, three phase
Product compatibility	LXM32.D72N4 400...480 V three phase
Shaft end	Keyed
IP Degree of Protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	131072 points/turn
Holding brake	With
Mounting Support	International standard flange
Electrical Connection	Rotatable right-angled connectors

Complementary

Range Compatibility	Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	24.2 A
Continuous power	7.85 W
Maximum current Irms	72 A LXM32.D72N4
Maximum permanent current	96.8 A
Second shaft	Without second shaft end
Shaft diameter	1.5 in (38 mm)
Shaft length	3.1 in (80 mm)
Key width	2.8 in (70 mm)
Feedback type	Single turn SinCos Hiperface
Holding torque	708.06 lbf.in (80 N.m) holding brake
Motor flange size	8.07 in (205 mm)
Number of motor stacks	2
Torque constant	2.6 N.m/A 248.0000000000 °F (120 °C)
Back emf constant	161 V/krpm 248.0000000000 °F (120 °C)

Number of motor poles	10
Rotor inertia	145 kg.cm ²
Stator resistance	0.3 Ohm 68.0000000000 °F (20 °C)
Stator inductance	5.6 mH 68.0000000000 °F (20 °C)
Stator electrical time constant	18.7 ms 68.0000000000 °F (20 °C)
Maximum radial force Fr	4200 N 1000 rpm 3330 N 2000 rpm 2910 N 3000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	40 W
Type of cooling	Natural convection
Length	17.9 in (454.5 mm)
Centring collar diameter	7.09 in (180 mm)
Centring collar depth	0.2 in (4 mm)
Number of mounting holes	4
Mounting holes diameter	0.6 in (14 mm)
Circle diameter of the mounting holes	8.5 in (215 mm)
Net Weight	107.8 lb(US) (48.9 kg)

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485201917
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.2 in (36.0 cm)
Package 1 Width	12.2 in (31.0 cm)
Package 1 Length	28.7 in (73.0 cm)
Package 1 Weight	127.9 lb(US) (58.0 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

Contractual warranty

Warranty	18 months
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