

BMH0703P16A2A

servo motor BMH, Lexium 32, 3.4Nm,
8000rpm, keyed shaft, without brake, IP54,
16bit encoder, 3 phases



Main

Device short name	BMH
Product or Component Type	Servo motor
Maximum mechanical speed	8000 rpm
Continuous stall torque	30.09 Lbf.In (3.4 N.m) LXM32.D18N4 6 A, 400 V, three phase 30.09 lbf.in (3.4 N.m) LXM32.D18N4 6 A, 480 V, three phase
Peak stall torque	90.3 Lbf.In (10.2 N.m) LXM32.D18N4 6 A, 400 V, three phase 90.3 lbf.in (10.2 N.m) LXM32.D18N4 6 A, 480 V, three phase
Nominal output power	1300 W LXM32.D18N4 6 A, 400 V, three phase 1300 W LXM32.D18N4 6 A, 480 V, three phase
Nominal torque	21.2 Lbf.In (2.4 N.m) LXM32.D18N4 6 A, 400 V, three phase 21.2 lbf.in (2.4 N.m) LXM32.D18N4 6 A, 480 V, three phase
Nominal speed	5000 rpm LXM32.D18N4 6 A, 400 V, three phase 5000 rpm LXM32.D18N4 6 A, 480 V, three phase
Product compatibility	LXM32.D18N4 400...480 V three phase
Shaft end	Keyed
IP Degree of Protection	IP54 standard
Speed feedback resolution	32768 points/turn
Holding brake	Without
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	3.91 A
Continuous power	1.68 W
Maximum current Irms	12.6 A LXM32.D18N4
Maximum permanent current	12.57 A
Second shaft	Without second shaft end
Shaft diameter	0.6 in (14 mm)
Shaft length	1.2 in (30 mm)
Key width	0.8 in (20 mm)
Feedback type	Single turn SinCos Hiperface
Motor flange size	2.8 in (70 mm)
Number of motor stacks	3
Torque constant	0.87 N.m/A 248 °F (120 °C)
Back emf constant	55.8 V/krpm 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	1.67 kg.cm ²

Stator resistance	2.65 Ohm 68 °F (20 °C)
Stator inductance	8.6 mH 68 °F (20 °C)
Stator electrical time constant	3.2 ms 68 °F (20 °C)
Maximum radial force Fr	730 N 1000 rpm 580 N 2000 rpm 510 N 3000 rpm 460 N 4000 rpm 430 N 5000 rpm 400 N 6000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	7.3 in (186 mm)
Centring collar diameter	2.4 in (60 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (5.5 mm)
Circle diameter of the mounting holes	3.2 in (82 mm)
Net Weight	6.6 lb(US) (3 kg)





Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485199443
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.331 in (11.000 cm)
Package 1 Width	7.677 in (19.500 cm)
Package 1 Length	16.142 in (41.000 cm)
Package 1 Weight	7.972 lb(US) (3.616 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	24
Package 2 Height	29.528 in (75.000 cm)
Package 2 Width	23.622 in (60.000 cm)
Package 2 Length	31.496 in (80.000 cm)
Package 2 Weight	204.466 lb(US) (92.744 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
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
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.

Contractual warranty

Warranty	18 months
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