

# BMH0701P06A2A

servo motor BMH, Lexium 32, 1.2Nm,  
8000rpm, untapped shaft, without brake, IP54,  
16bit encoder



## Main

Device short name	BMH
Product or Component Type	Servo motor
Maximum mechanical speed	8000 rpm
Continuous stall torque	10.6 Lbf.In (1.2 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 10.6 Lbf.In (1.2 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 12.4 Lbf.In (1.4 N.m) LXM32.D12N4 3 A, 400 V, three phase 12.4 lbf.in (1.4 N.m) LXM32.D12N4 3 A, 480 V, three phase
Peak stall torque	37.2 Lbf.In (4.2 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 37.2 Lbf.In (4.2 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 37.2 Lbf.In (4.2 N.m) LXM32.D12N4 3 A, 400 V, three phase 37.2 lbf.in (4.2 N.m) LXM32.D12N4 3 A, 480 V, three phase
Nominal output power	350 W LXM32.U60N4 1.5 A, 400 V, three phase 350 W LXM32.U60N4 1.5 A, 480 V, three phase 700 W LXM32.D12N4 3 A, 400 V, three phase 700 W LXM32.D12N4 3 A, 480 V, three phase
Nominal torque	9.7 Lbf.In (1.1 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 9.7 Lbf.In (1.1 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 11.5 Lbf.In (1.3 N.m) LXM32.D12N4 3 A, 400 V, three phase 11.5 lbf.in (1.3 N.m) LXM32.D12N4 3 A, 480 V, three phase
Nominal speed	3000 rpm LXM32.U60N4 1.5 A, 400 V, three phase 3000 rpm LXM32.U60N4 1.5 A, 480 V, three phase 5000 rpm LXM32.D12N4 3 A, 400 V, three phase 5000 rpm LXM32.D12N4 3 A, 480 V, three phase
Product compatibility	LXM32.U60N4 400...480 V three phase LXM32.D12N4 400...480 V three phase
Shaft end	Smooth shaft
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	1.78 A
Continuous power	1.05 W

Maximum current Irms	6 A LXM32.U60N4 6 A LXM32.D12N4
Maximum permanent current	5.97 A
Second shaft	Without second shaft end
Shaft diameter	0.4 in (11 mm)
Shaft length	0.9 in (23 mm)
Feedback type	Single turn SinCos Hiperface
Motor flange size	2.8 in (70 mm)
Number of motor stacks	1
Torque constant	0.79 N.m/A 248 °F (120 °C)
Back emf constant	50.72 V/krpm 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	0.59 kg.cm <sup>2</sup>
Stator resistance	8.3 Ohm 68 °F (20 °C)
Stator inductance	23.4 mH 68 °F (20 °C)
Stator electrical time constant	2.8 ms 68 °F (20 °C)
Maximum radial force Fr	660 N 1000 rpm 520 N 2000 rpm 460 N 3000 rpm 410 N 4000 rpm 380 N 5000 rpm 360 N 6000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	4.8 in (122 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	3.5 lb(US) (1.6 kg)

## Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606480160820
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	7.480 in (19.000 cm)
Package 1 Length	15.748 in (40.000 cm)
Package 1 Weight	4.872 lb(US) (2.210 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	135.673 lb(US) (61.540 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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
----------	-----------