# Product data sheet





servo motor BMH, Lexium 32, 34.4Nm, 3800rpm, untapped shaft, without brake, IP54, 16bit encoder

BMH2051P06A2A

! Discontinued on: Jun 30, 2023

! Discontinued

#### Main

Device short name	вмн
Product or component type	Servo motor
Maximum mechanical speed	3800 rpm
Continuous stall torque	304.5 lbf.in (34.4 N.m) LXM32.D72N4 24 A, 400 V, three phase 304.5 lbf.in (34.4 N.m) LXM32.D72N4 24 A, 480 V, three phase
Peak stall torque	915.2 lbf.in (103.4 N.m) LXM32.D72N4 24 A, 400 V, three phase 915.2 lbf.in (103.4 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal output power	5400 W LXM32.D72N4 24 A, 400 V, three phase 5400 W LXM32.D72N4 24 A, 480 V, three phase
Nominal torque	228.3 lbf.in (25.8 N.m) LXM32.D72N4 24 A, 400 V, three phase 228.3 lbf.in (25.8 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal speed	2000 rpm LXM32.D72N4 24 A, 400 V, three phase 2000 rpm LXM32.D72N4 24 A, 480 V, three phase
Product compatibility	LXM32.D72N4 400480 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

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Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	21.5 A
Continuous power	6.8 W
Maximum current Irms	72 A LXM32.D72N4
Maximum permanent current	78.1 A
Second shaft	Without second shaft end
Shaft diameter	1.5 in (38 mm)
Shaft length	3.1 in (80 mm)
Feedback type	Single turn SinCos Hiperface

Motor flange size	8.07 in (205 mm)
Number of motor stacks	1
Back emf constant	104 V/krpm 248.0000000000 °F (120 °C)
Number of motor poles	10
Rotor inertia	71.4 kg.cm²
Stator resistance	0.3 Ohm 68.0000000000 °F (20 °C)
Stator inductance	5.9 mH 68.0000000000 °F (20 °C)
Stator electrical time constant	19.7 ms 68.0000000000 °F (20 °C)
Maximum radial force Fr	3730 N 1000 rpm 2960 N 2000 rpm 2580 N 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	12.6 in (321 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	72.8 lb(US) (33 kg)

# **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	22.8 in (58.0 cm)
Package 1 Weight	86.0 lb(US) (39.0 kg)
Unit Type of Package 2	S06
Number of Units in Package 2	2
Package 2 Height	28.9 in (73.5 cm)
Package 2 Width	23.6 in (60.0 cm)
Package 2 Length	31.5 in (80.0 cm)
Package 2 Weight	200.6 lb(US) (91.0 kg)

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance



#### **Certifications & Standards**

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations