# **Product datasheet**

Specification





servo motor BMH, Lexium 32, 62.5Nm, 3800rpm, keyed shaft, without brake, IP54, 128bit encoder, straight

BMH2052P11A1A

! Discontinued

### Main

Mairi	
Device short name	ВМН
Product or component type	Servo motor
Maximum mechanical speed	3800 rpm
Continuous stall torque	62.5 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 62.5 N.m for LXM32.D72N4 at 24 A, 480 V, three phase
Peak stall torque	170 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 170 N.m for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal output power	6500 W for LXM32.D72N4 at 24 A, 400 V, three phase 6500 W for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal torque	41.6 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 41.6 N.m for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal speed	1500 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 1500 rpm for LXM32.D72N4 at 24 A, 480 V, three phase
Product compatibility	LXM32.D72N4 at 400480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 standard
Speed feedback resolution	131072 points/turn
Holding brake	Without
mounting support	International standard flange
Electrical connection	Straight connectors

### Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	24.2 A
Continuous power	7.85 W
Maximum current Irms	72 A for LXM32.D72N4
Maximum permanent current	96.8 A
Second shaft	Without second shaft end
Shaft diameter	38 mm
Shaft length	80 mm
Key width	70 mm

Feedback type	Single turn SinCos Hiperface
Motor flange size	205 mm
Number of motor stacks	2
Torque constant	2.6 N.m/A at 120 °C
Back emf constant	161 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	129 kg.cm²
Stator resistance	0.3 Ohm at 20 °C
Stator inductance	5.6 mH at 20 °C
Stator electrical time constant	18.7 ms at 20 °C
Maximum radial force Fr	4200 N at 1000 rpm 3330 N at 2000 rpm 2910 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	405 mm
Centring collar diameter	180 mm
Centring collar depth	4 mm
Number of mounting holes	4
Mounting holes diameter	14 mm
Circle diameter of the mounting holes	215 mm
Net weight	44 kg

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	36.0 cm
Package 1 Width	31.0 cm
Package 1 Length	73.0 cm
Package 1 Weight	54.0 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