

# Product datasheet

Specifications



servo motor BMH, Lexium 32,  
100Nm, 3000rpm, keyed shaft,  
without brake, IP65, IP67, 128  
multiturn encoder

BMH1904P32A2A

## Main

Device short name	BMH
Product or component type	Servo motor
Maximum mechanical speed	3000 rpm
Continuous stall torque	100 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 100 N.m for LXM32MC10N4 at 40 A, 480 V, three phase
Peak stall torque	230 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 230 N.m for LXM32MC10N4 at 40 A, 480 V, three phase
Nominal output power	16000 W for LXM32MC10N4 at 40 A, 400 V, three phase 16000 W for LXM32MC10N4 at 40 A, 480 V, three phase
Nominal torque	76.4 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 76.4 N.m for LXM32MC10N4 at 40 A, 480 V, three phase
Nominal speed	2000 rpm for LXM32MC10N4 at 40 A, 400 V, three phase 2000 rpm for LXM32MC10N4 at 40 A, 480 V, three phase
Shaft end	Keyed
IP degree of protection	IP65 standard IP20 with fan module
Speed feedback resolution	131072 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
Network number of phases	Three phase
Continuous stall current	40 A
Maximum current Irms	100 A for LXM32MC10N4 100 A
Maximum permanent current	100 A
Second shaft	Without second shaft end
Shaft diameter	38 mm
Shaft length	80 mm
Key width	10 mm
Feedback type	Single turn SinCos Hiperface
Motor flange size	190 mm

<b>Number of motor stacks</b>	4
<b>Torque constant</b>	2.5 N.m/A at 120 °C
<b>Back emf constant</b>	168 V/krpm at 120 °C
<b>Number of motor poles</b>	10
<b>Rotor inertia</b>	276.7 kg.cm <sup>2</sup>
<b>Stator resistance</b>	0.16 Ohm at 20 °C
<b>Stator inductance</b>	4.74 mH at 20 °C
<b>Stator electrical time constant</b>	29.6 ms at 20 °C
<b>Maximum radial force Fr</b>	3800 N at 1000 rpm 3700 N at 2000 rpm 3600 N at 3000 rpm
<b>Maximum axial force Fa</b>	0.2 x Fr
<b>Type of cooling</b>	Fan
<b>Length</b>	449.5 mm
<b>Centring collar diameter</b>	180 mm
<b>Centring collar depth</b>	4 mm
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	14 mm
<b>Circle diameter of the mounting holes</b>	215 mm
<b>Net weight</b>	57.4 kg

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	40 cm
<b>Package 1 Width</b>	30 cm
<b>Package 1 Length</b>	79.5 cm
<b>Package 1 Weight</b>	55.8 kg

## Sustainability

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**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

Pvc Free

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

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