Product data sheet

Specification





servo motor BMH, Lexium 32, 100Nm, 3000rpm, keyed shaft, with brake, IP65, IP67, 128bit encoder

BMH1904P31F2A

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 10,422.00 USD

Main

Product Or Component Type	Servo motor	
Device Short Name	вмн	
Maximum Mechanical Speed	3000 rpm	
Continuous Stall Torque	885.07 lbf.in (100 N.m) LXM32MC10N4 40 A, 400 V, three phase 885.07 lbf.in (100 N.m) LXM32MC10N4 40 A, 480 V, three phase	
Peak Stall Torque	2035.67 lbf.in (230 N.m) LXM32MC10N4 40 A, 400 V, three phase 2035.67 lbf.in (230 N.m) LXM32MC10N4 40 A, 480 V, three phase	
Nominal Output Power	16000 W LXM32MC10N4 40 A, 400 V, three phase 16000 W LXM32MC10N4 40 A, 480 V, three phase	
Nominal Torque	676.20 lbf.in (76.4 N.m) LXM32MC10N4 40 A, 400 V, three phase 676.20 lbf.in (76.4 N.m) LXM32MC10N4 40 A, 480 V, three phase	
Nominal Speed	2000 rpm LXM32MC10N4 40 A, 400 V, three phase 2000 rpm LXM32MC10N4 40 A, 480 V, three phase	
Shaft End	Smooth shaft	
Ip Degree Of Protection	IP65 standard IP20 with fan module	
Speed Feedback Resolution	131072 points/turn	
Holding Brake	With	
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	40 A
Maximum Current Irms	100 A LXM32MC10N4 100 A
Maximum Permanent Current	100 A
Second Shaft	Without second shaft end
Shaft Diameter	1.50 in (38 mm)
Shaft Length	3.15 in (80 mm)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Key Width	0.39 in (10 mm)
Feedback Type	Single turn SinCos Hiperface
Holding Torque	708.06 lbf.in (80 N.m) holding brake
Motor Flange Size	7.48 in (190 mm)
Number Of Motor Stacks	4
Torque Constant	2.5 N.m/A 248 °F (120 °C)
Back Emf Constant	168 V/krpm 248 °F (120 °C)
Number Of Motor Poles	10
Rotor Inertia	298.2 kg.cm²
Stator Resistance	0.16 Ohm 68 °F (20 °C)
Stator Inductance	4.74 mH 68 °F (20 °C)
Stator Electrical Time Constant	29.6 ms 68 °F (20 °C)
Maximum Radial Force Fr	3800 N 1000 rpm 3700 N 2000 rpm 3600 N 3000 rpm
Maximum Axial Force Fa	0.2 x Fr
Brake Pull-In Power	40 W
Type Of Cooling	Fan
Length	20.59 in (523 mm)
Centring Collar Diameter	7.09 in (180 mm)
Centring Collar Depth	0.16 in (4 mm)
Number Of Mounting Holes	4
Mounting Holes Diameter	0.55 in (14 mm)
Circle Diameter Of The Mounting Holes	8.46 in (215 mm)
Net Weight	141.54 lb(US) (64.2 kg)

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
Gtin	3606481041999
Returnability	No
Country Of Origin	DE

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	15.75 in (40 cm)
Package 1 Width	11.81 in (30 cm)
Package 1 Length	31.30 in (79.5 cm)
Package 1 Weight	138.01 lb(US) (62.6 kg)



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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

Ø	Mercury Free	
②	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
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