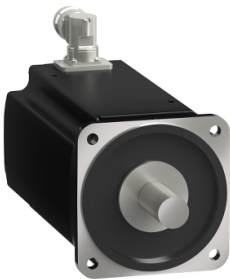


Product data sheet

Specifications



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

BMH1904P22A2A

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

Main

Device short name	BMH
Product or Component Type	Servo motor
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	2035.7 lbf.in (230 N.m) LXM32MC10N4 40 A, 400 V, three phase 2035.7 lbf.in (230 N.m) LXM32MC10N4 40 A, 480 V, three phase
Nominal output power	9800 W LXM32MC10N4 40 A, 400 V, three phase 9800 W LXM32MC10N4 40 A, 480 V, three phase
Nominal torque	414.2 lbf.in (46.8 N.m) LXM32MC10N4 40 A, 400 V, three phase 414.2 lbf.in (46.8 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	Keyed
IP Degree of Protection	IP65 standard IP67 with IP67 kit
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
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	1.5 in (38 mm)
Shaft length	3.1 in (80 mm)
Key width	0.4 in (10 mm)
Feedback type	Single turn SinCos Hiperface

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Motor flange size	7.5 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	5.0
Rotor inertia	276.7 kg.cm²
Stator resistance	0.16 Ohm 68 °F (20 °C)
Stator inductance	2.37 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
Type of cooling	Natural convection
Length	15.08 in (383 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)
Product Weight	123.02 lb(US) (55.8 kg)
Sizing reference	BMH1904P
Network number of phases	3
Accuracy error [angular]	1.4 °
Temperature copper hot	275 °F (135 °C)
Temperature magnet hot	266 °F (130 °C)
Temperature magnet rt	68 °F (20 °C)
Output current 3s peak	100.0 A
Inertia	0.0 kg.cm² of brake 276.7 kg.cm² of motor

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606481041951
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	14.724 in (37.400 cm)

Package 1 Width	31.220 in (79.300 cm)
Package 1 Length	11.811 in (30.000 cm)
Package weight(Lbs)	246.036 lb(US) (111.600 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	A7df881f-135f-4256-b8c2-ea55d4c9a151
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
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
PVC free	Yes

Use Longer

Lifetime extension	
Repair	No

Use Again

Repack and remanufacture	
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.