

Product data sheet

Specifications



servo motor BMH - 30 Nm - 5000 rpm - keyed shaft - with brake - IP65/IP67

BMH1901P37F2A

⚠ Discontinued on: Dec 1, 2020

⚠ End-of-service on: Dec 31, 2023

⚠ Discontinued

Main

Device short name	BMH
Product or Component Type	Servo motor
Maximum mechanical speed	4000 rpm
Continuous stall torque	265.5 lbf.in (30 N.m) LXM32.D72N4 24 A, 400 V, three phase 265.5 lbf.in (30 N.m) LXM32.D72N4 24 A, 480 V, three phase 265.5 lbf.in (30 N.m) LXM32MD85N4 32 A, 400 V, three phase 265.5 lbf.in (30 N.m) LXM32MD85N4 32 A, 480 V, three phase 265.5 lbf.in (30 N.m) LXM32MC10N4 40 A, 400 V, three phase 265.5 lbf.in (30 N.m) LXM32MC10N4 40 A, 480 V, three phase
Peak stall torque	687.7 lbf.in (77.7 N.m) LXM32.D72N4 24 A, 400 V, three phase 687.7 lbf.in (77.7 N.m) LXM32.D72N4 24 A, 480 V, three phase 766.5 lbf.in (86.6 N.m) LXM32MD85N4 32 A, 400 V, three phase 766.5 lbf.in (86.6 N.m) LXM32MD85N4 32 A, 480 V, three phase 793.9 lbf.in (89.7 N.m) LXM32MC10N4 40 A, 400 V, three phase 793.9 lbf.in (89.7 N.m) LXM32MC10N4 40 A, 480 V, three phase
Nominal output power	4800 W LXM32.D72N4 24 A, 400 V, three phase 4800 W LXM32.D72N4 24 A, 480 V, three phase 5180 W LXM32MD85N4 32 A, 400 V, three phase 5180 W LXM32MD85N4 32 A, 480 V, three phase 5180 W LXM32MC10N4 40 A, 400 V, three phase 5180 W LXM32MC10N4 40 A, 480 V, three phase
Nominal torque	162.9 lbf.in (18.4 N.m) LXM32.D72N4 24 A, 400 V, three phase 162.9 lbf.in (18.4 N.m) LXM32.D72N4 24 A, 480 V, three phase 146.04 lbf.in (16.5 N.m) LXM32MD85N4 32 A, 400 V, three phase 146.04 lbf.in (16.5 N.m) LXM32MD85N4 32 A, 480 V, three phase 146.04 lbf.in (16.5 N.m) LXM32MC10N4 40 A, 400 V, three phase 146.04 lbf.in (16.5 N.m) LXM32MC10N4 40 A, 480 V, three phase
Nominal speed	2500 rpm LXM32.D72N4 24 A, 400 V, three phase 2500 rpm LXM32.D72N4 24 A, 480 V, three phase 3000 rpm LXM32MD85N4 32 A, 400 V, three phase 3000 rpm LXM32MD85N4 32 A, 480 V, three phase 3000 rpm LXM32MC10N4 40 A, 400 V, three phase 3000 rpm LXM32MC10N4 40 A, 480 V, three phase
Product compatibility	LXM32.D72N4 400...480 V three phase
Shaft end	Keyed
IP Degree of Protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	32768 points/turn x 4096 turns
Holding brake	With
Mounting Support	International standard flange
Electrical Connection	Rotatable right-angled connectors

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

Complementary

Range Compatibility	Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	23.2 A
Continuous power	5.24 W
Maximum current Irms	72 A LXM32.D72N4
Maximum permanent current	89.6 A
Second shaft	Without second shaft end
Shaft diameter	1.5 in (38 mm)
Shaft length	3.1 in (80 mm)
Key width	2.8 in (70 mm)
Feedback type	Multiturn SinCos Hiperface
Holding torque	708.06 lbf.in (80 N.m) holding brake
Motor flange size	7.5 in (190 mm)
Number of motor stacks	1
Torque constant	1.3 N.m/A 248.0000000000 °F (120 °C)
Back emf constant	87.6 V/krpm 248.0000000000 °F (120 °C)
Number of motor poles	10
Rotor inertia	71.7 kg.cm²
Stator resistance	0.24 Ohm 68.0000000000 °F (20 °C)
Stator inductance	5.08 mH 68.0000000000 °F (20 °C)
Stator electrical time constant	21.2 ms 68.0000000000 °F (20 °C)
Maximum radial force Fr	3730 N 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	40 W
Type of cooling	Natural convection
Length	9.8 in (250 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	45.2 lb(US) (20.5 kg)

Ordering and shipping details

Category	18282-LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	3606485264134
Returnability	No
Country of origin	DE

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

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

[Learn more about Green Premium >](#)

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



Transparency RoHS/REACH

Well-being performance

✓	Mercury Free	
✓	Rohs Exemption Information	Yes
✓	Pvc Free	

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
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