

Product data sheet

Specifications



servo motor BMH - 65 Nm - 3500 rpm - untapped shaft - with brake - IP65/IP67

BMH1903P27F2A

⚠ 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	3500 rpm
Continuous stall torque	382.4 lbf.in (43.2 N.m) LXM32.D72N4 24 A, 400 V, three phase 382.4 lbf.in (43.2 N.m) LXM32.D72N4 24 A, 480 V, three phase 509.8 lbf.in (57.6 N.m) LXM32MD85N4 32 A, 400 V, three phase 509.8 lbf.in (57.6 N.m) LXM32MD85N4 32 A, 480 V, three phase 575.3 lbf.in (65 N.m) LXM32MC10N4 40 A, 400 V, three phase 575.3 lbf.in (65 N.m) LXM32MC10N4 40 A, 480 V, three phase
Peak stall torque	1086.9 lbf.in (122.8 N.m) LXM32.D72N4 24 A, 400 V, three phase 1086.9 lbf.in (122.8 N.m) LXM32.D72N4 24 A, 480 V, three phase 1250.6 lbf.in (141.3 N.m) LXM32MD85N4 32 A, 400 V, three phase 1250.6 lbf.in (141.3 N.m) LXM32MD85N4 32 A, 480 V, three phase 1440.01 lbf.in (162.7 N.m) LXM32MC10N4 40 A, 400 V, three phase 1440.01 lbf.in (162.7 N.m) LXM32MC10N4 40 A, 480 V, three phase
Nominal output power	5700 W LXM32.D72N4 24 A, 400 V, three phase 5700 W LXM32.D72N4 24 A, 480 V, three phase 7330 W LXM32MD85N4 32 A, 400 V, three phase 7330 W LXM32MD85N4 32 A, 480 V, three phase 7750 W LXM32MC10N4 40 A, 400 V, three phase 7750 W LXM32MC10N4 40 A, 480 V, three phase
Nominal torque	318.6 lbf.in (36 N.m) LXM32.D72N4 24 A, 400 V, three phase 318.6 lbf.in (36 N.m) LXM32.D72N4 24 A, 480 V, three phase 309.8 lbf.in (35 N.m) LXM32MD85N4 32 A, 400 V, three phase 309.8 lbf.in (35 N.m) LXM32MD85N4 32 A, 480 V, three phase 327.5 lbf.in (37 N.m) LXM32MC10N4 40 A, 400 V, three phase 327.5 lbf.in (37 N.m) LXM32MC10N4 40 A, 480 V, three phase
Nominal speed	1500 rpm LXM32.D72N4 24 A, 400 V, three phase 1500 rpm LXM32.D72N4 24 A, 480 V, three phase 2000 rpm LXM32MC10N4 40 A, 400 V, three phase 2000 rpm LXM32MC10N4 40 A, 480 V, three phase 2000 rpm LXM32MD85N4 32 A, 400 V, three phase 2000 rpm LXM32MD85N4 32 A, 480 V, three phase
Product compatibility	LXM32.D72N4 400...480 V three phase
Shaft end	Smooth shaft
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	36.1 A
Continuous power	7.95 W
Maximum current Irms	72 A LXM32.D72N4
Maximum permanent current	124.5 A
Second shaft	Without second shaft end
Shaft diameter	1.5 in (38 mm)
Shaft length	3.1 in (80 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	3
Torque constant	1.8 N.m/A 248.0000000000 °F (120 °C)
Back emf constant	129.2 V/krpm 248.0000000000 °F (120 °C)
Number of motor poles	10
Rotor inertia	208.8 kg.cm²
Stator resistance	0.13 Ohm 68.0000000000 °F (20 °C)
Stator inductance	3.62 mH 68.0000000000 °F (20 °C)
Stator electrical time constant	27.8 ms 68.0000000000 °F (20 °C)
Maximum radial force Fr	4500 N 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	40 W
Type of cooling	Natural convection
Length	14.6 in (370 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	98.1 lb(US) (44.5 kg)

Ordering and shipping details

Category	18282-LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	03606485264363
Returnability	No
Country of origin	DE

Contractual warranty

Warranty	18 months
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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.

[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