

BMH1901P31F2A

servo motor BMH, Lexium 32, 30Nm, 5000rpm,
keyed shaft, with brake, IP65, IP67, 128bit
encoder





Main

Product or Component Type	Servo motor
Device short name	BMH
Maximum mechanical speed	4000 rpm
Continuous stall torque	265.52 Lbf.In (30 N.m) LXM32.D72N4 24 A, 400 V, three phase 265.52 Lbf.In (30 N.m) LXM32.D72N4 24 A, 480 V, three phase 265.52 Lbf.In (30 N.m) LXM32MD85N4 32 A, 400 V, three phase 265.52 Lbf.In (30 N.m) LXM32MD85N4 32 A, 480 V, three phase 265.52 Lbf.In (30 N.m) LXM32MC10N4 40 A, 400 V, three phase 265.52 Lbf.in (30 N.m) LXM32MC10N4 40 A, 480 V, three phase
Peak stall torque	687.70 Lbf.In (77.7 N.m) LXM32.D72N4 24 A, 400 V, three phase 687.70 Lbf.In (77.7 N.m) LXM32.D72N4 24 A, 480 V, three phase 766.47 Lbf.In (86.6 N.m) LXM32MD85N4 32 A, 400 V, three phase 766.47 Lbf.In (86.6 N.m) LXM32MD85N4 32 A, 480 V, three phase 793.91 Lbf.In (89.7 N.m) LXM32MC10N4 40 A, 400 V, three phase 793.91 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	162.85 Lbf.In (18.4 N.m) LXM32.D72N4 24 A, 400 V, three phase 162.85 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	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	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	1.50 in (38 mm)
Shaft length	3.15 in (80 mm)
Key width	2.76 in (70 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	1
Torque constant	1.3 N.m/A 248 °F (120 °C)
Back emf constant	87.6 V/krpm 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	71.7 kg.cm ²
Stator resistance	0.24 Ohm 68 °F (20 °C)
Stator inductance	5.08 mH 68 °F (20 °C)
Stator electrical time constant	21.2 ms 68 °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	9.84 in (250 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	45.19 lb(US) (20.5 kg)

Ordering and shipping details

Category	18282-LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	3606485264059
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.81 in (30.0 cm)
Package 1 Width	15.75 in (40.0 cm)
Package 1 Length	31.30 in (79.5 cm)
Package 1 Weight	46.30 lb(US) (21.0 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
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
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

Contractual warranty

Warranty	18 months
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