Product data sheet
Characteristics

BMH2052P11A2A
servo motor BMH - 62.5 Nm - 3800 rpm - keyed shaft - without brake - IP54

Product availability : Stock - Normally stocked in distribution facility

Green Premium™

Price** : 5,735.00 USD

Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	3800 rpm
Continuous stall torque	553.17 lbf.in (62.5 N.m) LXM32.D72N4 24 A, 400 V, three phase 553.17 lbf.in (62.5 N.m) LXM32.D72N4 24 A, 480 V, three phase
Peak stall torque	1504.62 lbf.in (170 N.m) LXM32.D72N4 24 A, 400 V, three phase 1504.62 lbf.in (170 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal output power	6500 W LXM32.D72N4 24 A, 400 V, three phase 6500 W LXM32.D72N4 24 A, 480 V, three phase
Nominal torque	368.19 lbf.in (41.6 N.m) LXM32.D72N4 24 A, 400 V, three phase 368.19 lbf.in (41.6 N.m) LXM32.D72N4 24 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
Product compatibility	LXM32.D72N4 400...480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 standard
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	24.2 A
Continuous power	7.85 W

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

Maximum current Irms	72 A LXM32.D72N4
Maximum permanent current	96.8 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
Motor flange size	8.07 in (205 mm)
Number of motor stacks	2
Torque constant	2.6 N.m/A 248 °F (120 °C)
Back emf constant	161 V/krpm 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	129 kg.cm²
Stator resistance	0.3 Ohm 68 °F (20 °C)
Stator inductance	5.6 mH 68 °F (20 °C)
Stator electrical time constant	18.7 ms 68 °F (20 °C)
Maximum radial force Fr	4200 N 1000 rpm 3330 N 2000 rpm 2910 N 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	15.94 in (405 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	97.00 lb(US) (44 kg)

Ordering and shipping details

Category	18282 - LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	00785901924890
Returnability	Yes
Country of origin	DE

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 Carcinogen & 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) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
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.

Contractual warranty

Warranty	18 months

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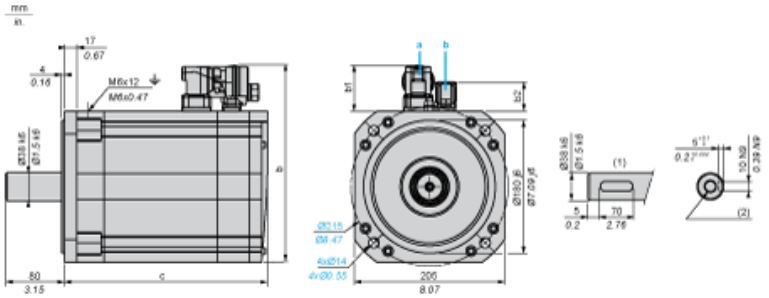
Servo Motors Dimensions

Example with Straight Connectors



a: Power supply for servo motor brake
b: Power supply for servo motor encoder
(1) Shaft end, keyed slot (optional)
(2) For screw M12 x 28 mm/M12 x 1.10 in.

Dimensions in mm

Straight connectors			Rotatable angled connectors			c (without brake)	c (with brake)
b	b1	b2	b	b1	b2		
259	54	25.5	265	60	39.5	405	454.5

Dimensions in in.

Straight connectors			Rotatable angled connectors			c (without brake)	c (with brake)
b	b1	b2	b	b1	b2		
10.19	2.12	1.00	10.43	2.36	1.55	15.94	17.89

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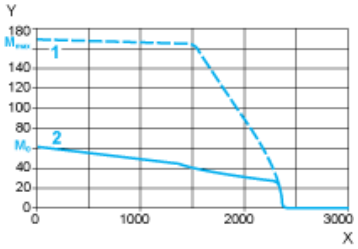
400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

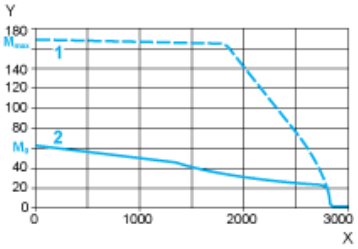


X	Speed in rpm
Y	Torque in Nm
1	Peak torque
2	Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



X	Speed in rpm
Y	Torque in Nm
1	Peak torque
2	Continuous torque