

BMH2052P21F2A

servo motor BMH - 62.5 Nm - 3800 rpm -
untapped shaft - with brake - IP65/IP67



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



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	3800 rpm
Continuous stall torque	553.1 lbf.in (62.5 N.m) for LXM32.D72N4 24 A at 400 V three phase 553.1 lbf.in (62.5 N.m) for LXM32.D72N4 24 A at 480 V three phase
Peak stall torque	1504.42 lbf.in (170 N.m) for LXM32.D72N4 24 A at 400 V three phase 1504.42 lbf.in (170 N.m) for LXM32.D72N4 24 A at 480 V three phase
Nominal output power	6500 W for LXM32.D72N4 24 A at 400 V three phase 6500 W for LXM32.D72N4 24 A at 480 V three phase
Nominal torque	368.14 lbf.in (41.6 N.m) for LXM32.D72N4 24 A at 400 V three phase 368.14 lbf.in (41.6 N.m) for LXM32.D72N4 24 A at 480 V three phase
Nominal speed	1500 rpm for LXM32.D72N4 24 A at 400 V three phase 1500 rpm for LXM32.D72N4 24 A at 480 V three phase
Product compatibility	LXM32.D72N4 at 400...480 V three phase
Shaft end	Smooth shaft
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	24.2 A
Continuous power	7.85 W
Maximum current Irms	72 A LXM32.D72N4
Maximum permanent current	96.8 A
Second shaft	Without second shaft end
Shaft diameter	1.5 in (38 mm)
Shaft length	3.15 in (80 mm)
Feedback type	Single turn SinCos Hiperface
Holding torque	707.96 lbf.in (80 N.m) (holding brake)
Motor flange size	8.07 in (205 mm)
Number of motor stacks	2
Torque constant	2.6 N.m/A at 248 °F (120 °C)

Back emf constant	161 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	145 kg.cm ²
Stator resistance	0.3 Ohm at 68 °F (20 °C)
Stator inductance	5.6 mH at 68 °F (20 °C)
Stator electrical time constant	18.7 ms at 68 °F (20 °C)
Maximum radial force Fr	2910 N at 3000 rpm 3330 N at 2000 rpm 4200 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	40 W
Type of cooling	Natural convection
Length	17.89 in (454.5 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)
Product weight	107.81 lb(US) (48.9 kg)

Ordering and shipping details

Category	18282 - LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	003606485201900
Nbr. of units in pkg.	1
Package weight(Lbs)	127.60000000000001
Returnability	N
Country of origin	DE

Offer Sustainability

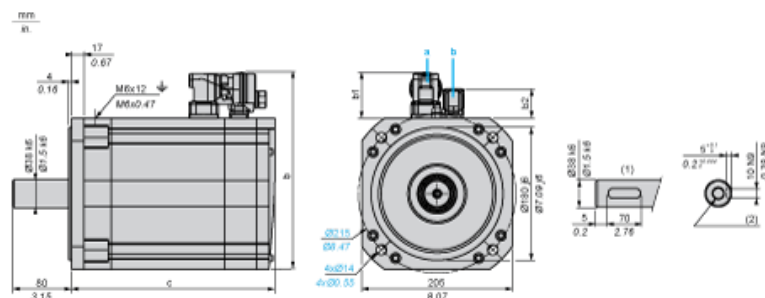
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0936 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
- - - - - More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months
-----------------	-----------

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

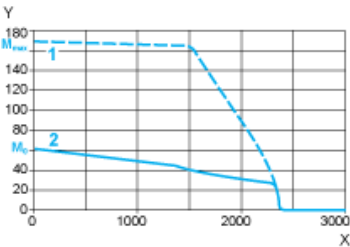
Dimensions in in.

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

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

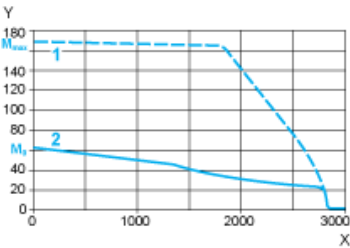


- X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque

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