



## Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	3800 rpm
Continuous stall torque	304.42 lbf.in (34.4 N.m) for LXM32.D72N4 24 A at 400 V three phase 304.42 lbf.in (34.4 N.m) for LXM32.D72N4 24 A at 480 V three phase
Peak stall torque	915.04 lbf.in (103.4 N.m) for LXM32.D72N4 24 A at 400 V three phase 915.04 lbf.in (103.4 N.m) for LXM32.D72N4 24 A at 480 V three phase
Nominal output power	5400 W for LXM32.D72N4 24 A at 400 V three phase 5400 W for LXM32.D72N4 24 A at 480 V three phase
Nominal torque	228.32 lbf.in (25.8 N.m) for LXM32.D72N4 24 A at 400 V three phase 228.32 lbf.in (25.8 N.m) for LXM32.D72N4 24 A at 480 V three phase
Nominal speed	2000 rpm for LXM32.D72N4 24 A at 480 V three phase 2000 rpm for LXM32.D72N4 24 A at 400 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	Straight connectors

## Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	21.5 A
Continuous power	6.8 W
Maximum current Irms	72 A LXM32.D72N4
Maximum permanent current	78.1 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	1
Back emf constant	104 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	87.4 kg.cm <sup>2</sup>
Stator resistance	0.3 Ohm at 68 °F (20 °C)

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Stator inductance	5.9 mH at 68 °F (20 °C)
Stator electrical time constant	19.7 ms at 68 °F (20 °C)
Maximum radial force Fr	2580 N at 3000 rpm 2960 N at 2000 rpm 3730 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	40 W
Type of cooling	Natural convection
Length	14.59 in (370.5 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	83.56 lb(US) (37.9 kg)

## Environment

## Offer Sustainability

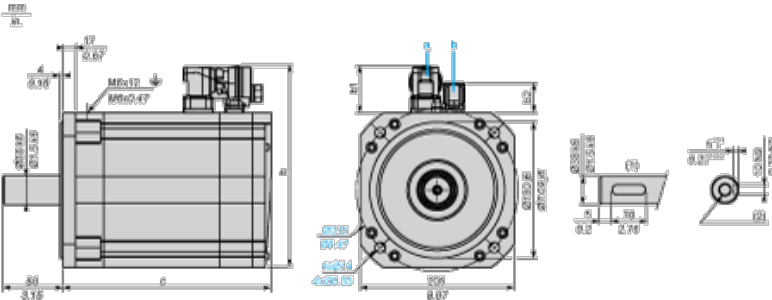
Green Premium product	Green Premium product
Compliant - since 0936 - Schneider Electric declaration of conformity	Compliant - since 0936 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Need no specific recycling operations	Need no specific recycling operations

## Contractual warranty

Warranty period	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	312	370.5

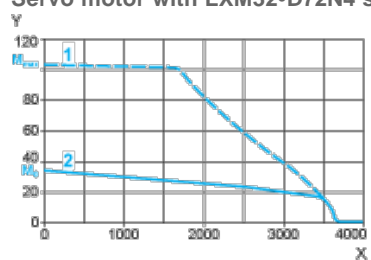
Dimensions in in.

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	12.28	14.58

## 400 V 3-Phase Supply Voltage

### Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



X Speed in rpm

Y Torque in Nm

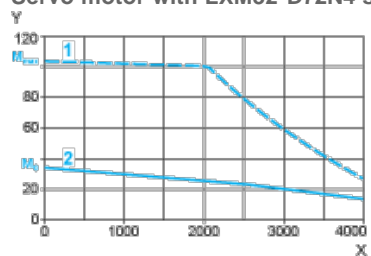
1 Peak torque

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