

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



Main	
Product or component type	Servo motor
Device short name	ВМН
Maximum mechanical speed	3800 rpm
Continuous stall torque	304.47 Lbf.In (34.4 N.m) LXM32.D72N4 24 A, 400 V, three phase 304.47 lbf.in (34.4 N.m) LXM32.D72N4 24 A, 480 V, three phase
Peak stall torque	915.17 Lbf.In (103.4 N.m) LXM32.D72N4 24 A, 400 V, three phase 915.17 lbf.in (103.4 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal output power	5400 W LXM32.D72N4 24 A, 400 V, three phase 5400 W LXM32.D72N4 24 A, 480 V, three phase
Nominal torque	228.35 Lbf.In (25.8 N.m) LXM32.D72N4 24 A, 400 V, three phase 228.35 lbf.in (25.8 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal speed	2000 rpm LXM32.D72N4 24 A, 400 V, three phase 2000 rpm LXM32.D72N4 24 A, 480 V, three phase
Product compatibility	LXM32.D72N4 400480 V three phase
Shaft end	Smooth shaft
IP degree of protection	IP54 standard
Speed feedback resolution	32768 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange

Straight connectors

#### Complementary

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	1.50 in (38 mm)			
Shaft length	3.15 in (80 mm)			
Feedback type	Multiturn SinCos Hiperface			
Holding torque	708.06 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 248 °F (120 °C)			
Number of motor poles	10			
Rotor inertia	87.4 kg.cm²			
Stator resistance	0.3 Ohm 68 °F (20 °C)			
Stator inductance	5.9 mH 68 °F (20 °C)			

Electrical connection

Stator electrical time constant	19.7 ms 68 °F (20 °C)			
Maximum radial force Fr	3730 N 1000 rpm 2960 N 2000 rpm 2580 N 3000 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)			
Net weight	83.56 lb(US) (37.9 kg)			

# Ordering and shipping details

18282 - LEXIUM 32 MOTORS		
PC53		
03606485202921		
42.91 kg (94.6 lb(US))		
No		
DE		

# Offer Sustainability

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 Declaration			
Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Decl			
Yes			
€Yes			
☐ China RoHS Declaration			
Product Environmental Profile			
No need of specific recycling operations			
The product must be disposed on European Union markets following specific			

## Contractual warranty

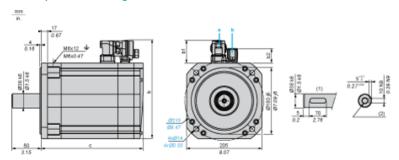
Warranty	18 months

# Product data sheet Dimensions Drawings

# BMH2051P07F1A

## 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 conn	ectors	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

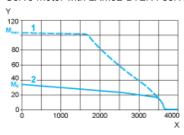
# Product data sheet **Performance Curves**

# BMH2051P07F1A

## 400 V 3-Phase Supply Voltage

# Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

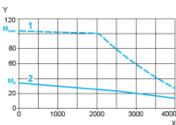


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

# 480 V 3-Phase Supply Voltage

# Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



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