# BMH0703P27A2A

servo motor BMH - 3.4 Nm - 8000 rpm - untapped shaft - without brake - IP65/IP67





# Main

Product or component type	Servo motor					
Device short name	ВМН					
Maximum mechanical speed	8000 rpm					
Continuous stall torque	$3.4~\rm N.m$ for LXM32.D18N4 6 A at 400 V three phase $3.4~\rm N.m$ for LXM32.D18N4 6 A at 480 V three phase					
Peak stall torque	10.2 N.m for LXM32.D18N4 6 A at 400 V three phase 10.2 N.m for LXM32.D18N4 6 A at 480 V three phase					
Nominal output power	1300 W for LXM32.D18N4 6 A at 400 V three phase 1300 W for LXM32.D18N4 6 A at 480 V three phase					
Nominal torque	2.4 N.m for LXM32.D18N4 6 A at 400 V three phase 2.4 N.m for LXM32.D18N4 6 A at 480 V three phase					
Nominal speed	5000 rpm for LXM32.D18N4 6 A at 400 V three phase 5000 rpm for LXM32.D18N4 6 A at 480 V three phase					
Product compatibility	LXM32.D18N4 at 400480 V three phase					
Shaft end	Untapped					
IP degree of protection	IP65 (standard) IP67 (with IP67 kit)					
Speed feedback resolution	32768 points/turn x 4096 turns					
Holding brake	Without					
Mounting support	International standard flange					
Electrical connection	Rotatable right-angled connectors					

#### Complementary

Complementary	
Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	3.91 A
Continuous power	1.68 W
Maximum current Irms	12.6 A for LXM32.D18N4
Maximum permanent current	12.57 A
Second shaft	Without second shaft end
Shaft diameter	14 mm
Shaft length	30 mm
Feedback type	Multiturn SinCos Hiperface
Motor flange size	70 mm
Number of motor stacks	3
Torque constant	0.87 N.m/A at 120 °C
Back emf constant	55.8 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	1.67 kg.cm²
Stator resistance	2.65 Ohm at 20 °C
Stator inductance	8.6 mH at 20 °C

Stator electrical time constant	3.2 ms at 20 °C				
Maximum radial force Fr	730 N at 1000 rpm				
	580 N at 2000 rpm				
	510 N at 3000 rpm				
	460 N at 4000 rpm				
	430 N at 5000 rpm				
	400 N at 6000 rpm				
Maximum axial force Fa	0.2 x Fr				
Type of cooling	Natural convection				
Length	186 mm				
Centring collar diameter	60 mm				
Centring collar depth	2.5 mm				
Number of mounting holes	4				
Mounting holes diameter	5.5 mm				
Circle diameter of the mounting holes	82 mm				
Product weight	3 kg				

## Offer Sustainability

Sustainable offer status	Green Premium product					
RoHS (date code: YYWW)	Compliant - since 0936 - Schneider Electric declaration of conformity					
REACh	Reference not containing SVHC above the threshold					
Product environmental profile	Available Download Product Environmental					
Product end of life instructions	Need no specific recycling operations					

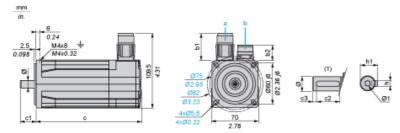


# Product data sheet **Dimensions Drawings**

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## Servo Motors Dimensions

## **Example with Straight Connectors**



- Power supply for servo motor brake
- Power supply for servo motor encoder Shaft end, keyed slot (optional) b:

#### Dimensions in mm

Straight	Straight Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws	
b1	b2	b1	b2									
39.5	25.5	39.5	39.5	186	225	30	20	5	5 h9	16 <sup>+0</sup> <sub>-0.13</sub>	14 k6	M5 x 17

#### Dimensions in in.

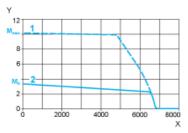
Straight		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	с3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1	1.55	1.55	7.32	8.85	1.18	0.78	0.19	0.20 h9	0.63 <sup>+0</sup> <sub>-0.0051</sub>	0.55 k6	M5 x 0.67

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#### 400 V 3-Phase Supply Voltage

## Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

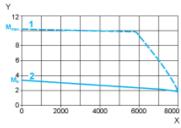


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

## 480 V 3-Phase Supply Voltage

## Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive



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