BMH0703P16A1A

servo motor BMH - 3.4 Nm - 8000 rpm - keyed shaft - without brake - IP54





Main	
Product or component type	Servo motor
Device short name	ВМН
Maximum mechanical speed	8000 rpm
Continuous stall torque	3.4 N.m for LXM32.D18N4 6 A at 400 V three phase 3.4 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

phase

Without

IP54 (standard)

32768 points/turn

Straight connectors

International standard flange

5000 rpm for LXM32.D18N4 6 A at 480 V three

LXM32.D18N4 at 400...480 V three phase

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
Key width	20 mm
Feedback type	Single turn 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

Product compatibility

IP degree of protection

Speed feedback resolu-

Shaft end

Holding brake

Mounting support

Electrical connection

tion

he performance of the products contained herein.

of these products for specific user applications.

testing of the products with respect to the relevant specific application or use thereof
misuse of the information contained herein.

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					

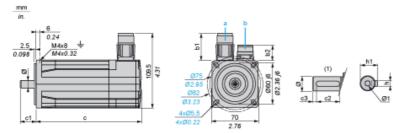


Product data sheet **Dimensions Drawings**

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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 ⁺⁰ _{-0.13}	14 k6	M5 x 17

Dimensions in in.

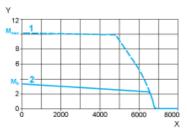
Straight		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	с3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1	1.55	1.55	7.32	8.85	1.18	0.78	0.19	0.20 h9	0.63 ⁺⁰ _{-0.0051}	0.55 k6	M5 x 0.67

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

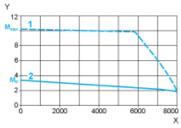


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

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