BMH0702P17F1A

servo motor BMH - 2.5 Nm - 8000 rpm - keyed shaft - with brake - IP54





Main Produ type

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	8000 rpm
Continuous stall torque	$2.5~\rm N.m$ for LXM32.D12N4 3 A at 400 V three phase $2.5~\rm N.m$ for LXM32.D12N4 3 A at 480 V three phase
Peak stall torque	7.4 N.m for LXM32.D12N4 3 A at 400 V three phase 7.4 N.m for LXM32.D12N4 3 A at 480 V three phase
Nominal output power	700 W for LXM32.D12N4 3 A at 400 V three phase 700 W for LXM32.D12N4 3 A at 480 V three phase
Nominal torque	2.2 N.m for LXM32.D12N4 3 A at 400 V three phase 2.2 N.m for LXM32.D12N4 3 A at 480 V three phase
Nominal speed	3000 rpm for LXM32.D12N4 3 A at 400 V three phase 3000 rpm for LXM32.D12N4 3 A at 480 V three phase
Product compatibility	LXM32.D12N4 at 400480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 (standard)
Speed feedback resolution	32768 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	2.94 A
Continuous power	1.51 W
Maximum current Irms	9.7 A for LXM32.D12N4
Maximum permanent current	9.68 A
Second shaft	Without second shaft end
Shaft diameter	11 mm
Shaft length	23 mm
Key width	18 mm
Feedback type	Multiturn SinCos Hiperface
Holding torque	3 N.m (holding brake)
Motor flange size	70 mm
Number of motor stacks	2
Torque constant	0.84 N.m/A at 120 °C
Back emf constant	54.08 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	1.24 kg.cm²
Stator resistance	3.8 Ohm at 20 °C
Stator inductance	12.2 mH at 20 °C

Stator electrical time constant	3.2 ms at 20 °C						
Maximum radial force Fr	710 N at 1000 rpm						
	560 N at 2000 rpm						
	490 N at 3000 rpm						
	450 N at 4000 rpm						
	410 N at 5000 rpm						
	390 N at 6000 rpm						
Maximum axial force Fa	0.2 x Fr						
Brake pull-in power	7 W						
Type of cooling	Natural convection						
Length	193 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	3.3 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

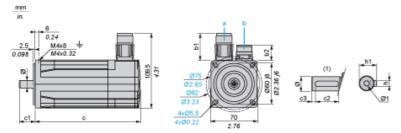


Product data sheet **Dimensions Drawings**

BMH0702P17F1A

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 Rotatable angled connectors		c (without brake)	, ,	c1	c2	сЗ	h	h1	Ø	Ø1 for screws	
b1	b2	b1	b2									
39.5	25.5	39.5	39.5	154	193	23	18	2.5	4 h9	12.5 ⁺⁰ _{-0.13}	11 k6	M4 x 14

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	6.06	7.59	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _{-0.0051}	0.43 k6	M4 x 0.55

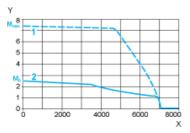
Product data sheet **Performance Curves**

BMH0702P17F1A

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

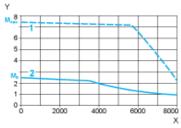


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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