Product data sheet Characteristics

BMH0701P12F2A

servo motor BMH - 1.2 Nm - 8000 rpm - keyed shaft - with brake - IP54





Main

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Product or component type	Servo motor
Device short name	ВМН
Maximum mechanical speed	8000 rpm
Continuous stall torque	1.2 N.M for LXM32.U60N4 at 1.5 A, 400 V, three phase
	1.2 N.M for LXM32.U60N4 at 1.5 A, 480 V, three phase 1.4 N.M for LXM32.D12N4 at 3 A, 400 V, three
	phase 1.4 N.m for LXM32.D12N4 at 3 A, 480 V, three phase
Peak stall torque	4.2 N.M for LXM32.U60N4 at 1.5 A, 400 V, three phase
	4.2 N.M for LXM32.U60N4 at 1.5 A, 480 V, three phase
	4.2 N.M for LXM32.D12N4 at 3 A, 400 V, three phase
	4.2 N.m for LXM32.D12N4 at 3 A, 480 V, three phase
Nominal output power	350 W for LXM32.U60N4 at 1.5 A, 400 V, three phase
	350 W for LXM32.U60N4 at 1.5 A, 480 V, three phase
	700 W for LXM32.D12N4 at 3 A, 400 V, three phase 700 W for LXM32.D12N4 at 3 A, 480 V, three phase
Nominal torque	1.1 N.M for LXM32.U60N4 at 1.5 A, 400 V, three phase
	1.1 N.M for LXM32.U60N4 at 1.5 A, 480 V, three phase
	1.3 N.M for LXM32.D12N4 at 3 A, 400 V, three phase
	1.3 N.m for LXM32.D12N4 at 3 A, 480 V, three phase
Nominal speed	3000 rpm for LXM32.U60N4 at 1.5 A, 400 V, three
	phase 3000 rpm for LXM32.U60N4 at 1.5 A, 480 V, three phase
	5000 rpm for LXM32.D12N4 at 3 A, 400 V, three phase
	5000 rpm for LXM32.D12N4 at 3 A, 480 V, three phase
Product compatibility	LXM32.U60N4 at 400480 V three phase LXM32.D12N4 at 400480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 standard
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Lexium 32
480 V
Three phase
1.78 A
1.05 W
6 A for LXM32.U60N4
6 A for LXM32.D12N4
5.97 A
Without second shaft end
11 mm
23 mm
18 mm
Multiturn SinCos Hiperface
3 N.m holding brake
70 mm
1
0.79 N.m/A at 120 °C
50.72 V/krpm at 120 °C
10
0.7 kg.cm ²
8.3 Ohm at 20 °C
23.4 mH at 20 °C
2.8 ms at 20 °C
660 N at 1000 rpm
520 N at 2000 rpm 460 N at 3000 rpm
410 N at 4000 rpm
380 N at 5000 rpm
360 N at 6000 rpm
0.2 x Fr
7 W
Natural convection
161 mm
60 mm
2.5 mm
4
5.5 mm
82 mm
2.6 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	2.758 kg
Package 1 Height	11.0 cm
Package 1 width	20.0 cm
Package 1 Length	40.0 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	₫Yes
China RoHS Regulation	☑ China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

Contractual warranty

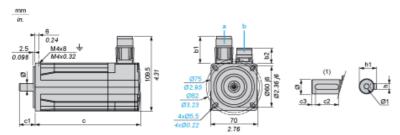
Warranty	18 months
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Product data sheet **Dimensions Drawings**

BMH0701P12F2A

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:
- (1)

Dimensions in mm

Straight Rotatable angled connectors			c (without brake)	c (with brake)	c1	c2	с3	h	h1	Ø	Ø1 for screws	
b1	b2	b1	b2									
39.5	25.5	39.5	39.5	122	161	23	18	2.5	4 h9	12.5 ⁺⁰ _{-0.13}	11 k6	M4 x 14

Dimensions in in.

_	Straight connectors 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	4.80	6.33	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _{-0.0051}	0.43 k6	M4 x 0.55

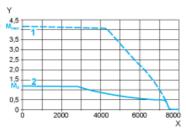
Product data sheet Performance Curves

BMH0701P12F2A

400 V 3-Phase Supply Voltage

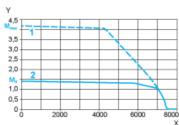
Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



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

Servo motor with LXM32•D12N4 servo drive

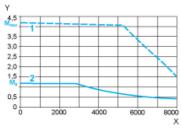


- X Speed in rpm
- Y Torque in Nm
- Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

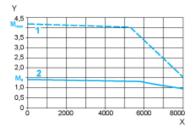
Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



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

Servo motor with LXM32•D12N4 servo drive



- X Y 1
- Speed in rpm Torque in Nm Peak torque Continuous torque 2