

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

BMH0701P11F2A

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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							
Holding brake	With							
Mounting support	International standard flange							
Electrical connection	Rotatable right-angled connectors							

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	1.78 A
Continuous power	1.05 W

Maximum current Irms	6 A for LXM32.U60N4 6 A for LXM32.D12N4							
Maximum permanent current	5.97 A							
Second shaft	Without second shaft end							
Shaft diameter	11 mm							
Shaft length	23 mm							
Key width	18 mm							
Feedback type	Single turn SinCos Hiperface							
Holding torque	3 N.m holding brake							
Motor flange size	70 mm							
Number of motor stacks	1							
Torque constant	0.79 N.m/A at 120 °C							
Back emf constant	50.72 V/krpm at 120 °C							
Number of motor poles	10							
Rotor inertia	0.7 kg.cm ²							
Stator resistance	8.3 Ohm at 20 °C							
Stator inductance	23.4 mH at 20 °C							
Stator electrical time constant	2.8 ms at 20 °C							
Maximum radial force Fr	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							
Maximum axial force Fa	0.2 x Fr							
Brake pull-in power	7 W							
Type of cooling	Natural convection							
Length	161 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							
Net weight	2.6 kg							

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.8 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
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Contractual warranty	
Warranty	18 months

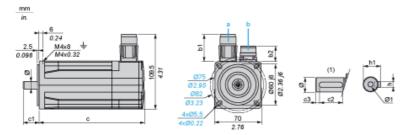
Product data sheet

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Dimensions Drawings

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)

Dimensions in mm

Straight	aight connect Rotatable angled		c (without brake)	c (with brake	с1	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.

Str	aight	conne	Rotatable angled		c (without br	c (with br	c1	c2	с3	h	h1	Ø	Ø1 for screws
b1		b2	b1	b2									
1.5	5	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

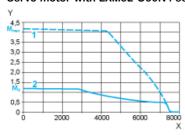
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Performance Curves

400 V 3-Phase Supply Voltage

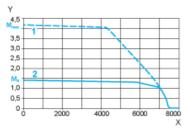
Torque/Speed Curves

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
1 Peak torque
2 Continuous torque

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Product data sheet

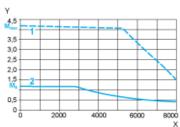
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Performance Curves

480 V 3-Phase Supply Voltage

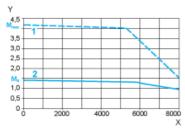
Torque/Speed Curves

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