Product data sheet

Specifications



servo motor BMH, Lexium 32, 1.2Nm, 8000rpm, keyed shaft, without brake, IP65, IP67, 128 multiturn encoder

BMH0701P32A2A

Main

mann	
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	IP65 standard
	IP67 with IP67 kit
Speed Feedback Resolution	131072 points/turn x 4096 turns
Holding Brake	Without
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	Multiturn SinCos Hiperface
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	0.59 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
Type Of Cooling	Natural convection
Length	122 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	1.6 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	39.37 cm
Package 1 Width	11.18 cm
Package 1 Length	19.05 cm
Package 1 Weight	2.22 kg

Contractual warranty

Warranty

18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



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Transparency RoHS/REACh

Well-being performance



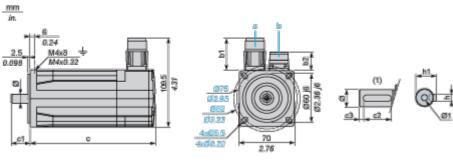
Certifications & Standards

Reach Regulation	REACh Declaration							
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)							
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							
Circularity Profile	No need of specific recycling operations							
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							

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 Rotatable angled connectors connectors		c (without c (with	c1	c2	c3	h	h1	ø	Ø1 for			
b1	b2	b1	b2	brake)	brake)							screws
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.

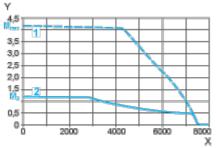
Straigh conneo		Rotata angled connec		c (without	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2	brake)								
1.55	1	1.55	1.55	4.80	6.33	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _ 0.0051	0.43 k6	M4 x 0.55

Performance Curves

400 V 3-Phase Supply Voltage

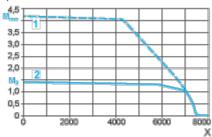
Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



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

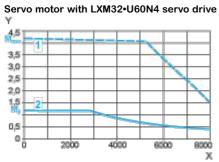
Servo motor with LXM32•D12N4 servo drive Υ



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

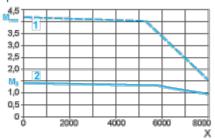
480 V 3-Phase Supply Voltage

Torque/Speed Curves



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

Servo motor with LXM32•D12N4 servo drive Υ



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