Product data sheet

Specifications



() Discontinued

servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, keyed shaft, without brake, IP65, IP67, 128bit encoder, straight, 3 phases

BMH0702P31A1A

() Discontinued on: Jun 30, 2023

Main

Servo motor
BMH
8000 rpm
2.5 N.m for LXM32.D12N4 at 3 A, 400 V, three phase 2.5 N.m for LXM32.D12N4 at 3 A, 480 V, three phase
7.4 N.m for LXM32.D12N4 at 3 A, 400 V, three phase 7.4 N.m for LXM32.D12N4 at 3 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
2.2 N.m for LXM32.D12N4 at 3 A, 400 V, three phase 2.2 N.m for LXM32.D12N4 at 3 A, 480 V, three phase
3000 rpm for LXM32.D12N4 at 3 A, 400 V, three phase 3000 rpm for LXM32.D12N4 at 3 A, 480 V, three phase
LXM32.D12N4 at 400480 V three phase
Keyed
IP65 standard IP67 with IP67 kit
131072 points/turn
Without
International standard flange
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	Single turn SinCos Hiperface
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	1.13 kg.cm ²
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
Type Of Cooling	Natural convection
Length	154 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	2.3 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.0 cm
Package 1 Width	20.0 cm
Package 1 Length	40.0 cm
Package 1 Weight	2.0 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



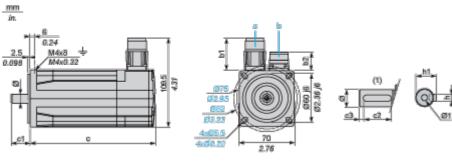
Certifications & Standards

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

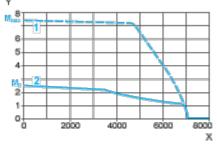
•	Straight connectors Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws	
b1	b2	b1	b2	Diake)								
1.55	1	1.55	1.55	6.06	7.59	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _ 0.0051	0.43 k6	M4 x 0.55

Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive Ψ

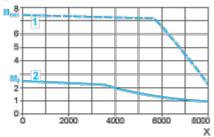


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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