Product data sheet

Specifications



() Discontinued

servo motor BMH, Lexium 32, 3.4Nm, 8000rpm, untapped shaft, without brake, IP65, IP67, 128 multiturn encoder, straight, 3 phases

BMH0703P22A1A

() Discontinued on: Jun 30, 2023

Main

Product Or Component Type	Servo motor					
Device Short Name	ВМН					
Maximum Mechanical Speed	8000 rpm					
Continuous Stall Torque	3.4 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 3.4 N.m for LXM32.D18N4 at 6 A, 480 V, three phase					
Peak Stall Torque	10.2 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 10.2 N.m for LXM32.D18N4 at 6 A, 480 V, three phase					
Nominal Output Power	1300 W for LXM32.D18N4 at 6 A, 400 V, three phase 1300 W for LXM32.D18N4 at 6 A, 480 V, three phase					
Nominal Torque	2.4 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 2.4 N.m for LXM32.D18N4 at 6 A, 480 V, three phase					
Nominal Speed	5000 rpm for LXM32.D18N4 at 6 A, 400 V, three phase 5000 rpm for LXM32.D18N4 at 6 A, 480 V, three phase					
Product Compatibility	LXM32.D18N4 at 400480 V three phase					
Shaft End	Smooth shaft					
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	Straight connectors					

Complementary

Range Compatibility	Lexium 32
[Us] Rated Supply Voltage	480 V
Network Number Of Phases	Three phase
Continuous Stall Current	3.91 A
Continuous Power	1.68 W
Maximum Current Irms	12.6 A for LXM32.D18N4
Maximum Permanent Current	12.57 A
Second Shaft	Without second shaft end
Shaft Diameter	14 mm
Shaft Length	30 mm

Feedback Type	Multiturn SinCos Hiperface
Motor Flange Size	70 mm
Number Of Motor Stacks	3
Torque Constant	0.87 N.m/A at 120 °C
Back Emf Constant	55.8 V/krpm at 120 °C
Number Of Motor Poles	10
Rotor Inertia	1.67 kg.cm ²
Stator Resistance	2.65 Ohm at 20 °C
Stator Inductance	8.6 mH at 20 °C
Stator Electrical Time Constant	3.2 ms at 20 °C
Maximum Radial Force Fr	730 N at 1000 rpm 580 N at 2000 rpm 510 N at 3000 rpm 460 N at 4000 rpm 430 N at 5000 rpm 400 N at 6000 rpm
Maximum Axial Force Fa	0.2 x Fr
Type Of Cooling	Natural convection
Length	186 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	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	2.2 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



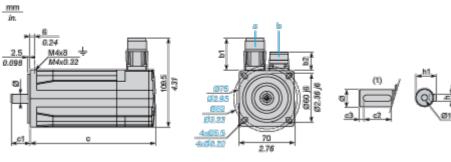
Certifications & Standards

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 and 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	186	225	30	20	5	5 h9	16 ⁺⁰ _ 0.13	14 k6	M5 x 17

Dimensions in in.

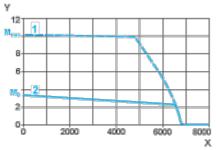
Straigh conneo		Rotata angled connec		c (without	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2	brake)								
1.55	1	1.55	1.55	7.32	8.85	1.18	0.78	0.19	0.20 h9	0.63 ⁺⁰ _ 0.0051	0.55 k6	M5 x 0.67

Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

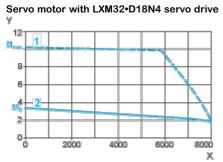
Servo motor with LXM32•D18N4 servo drive



- 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