BMH0702P17A2A

servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, keyed shaft, without brake, IP54, 16 multiturn encoder, 3 phases





Main

Product or component type	Servo motor
Device short name	ВМН
Maximum mechanical speed	8000 rpm
Continuous stall torque	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
Peak stall torque	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
Nominal output power	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	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
Nominal speed	3000 rpm for LXM32.D12N4 at 3 A, 400 V, three phase 3000 rpm for LXM32.D12N4 at 3 A, 480 V, three phase
Product compatibility	LXM32.D12N4 at 400480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 standard
Speed feedback resolution	32768 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

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	Multiturn 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

10						
1.13 kg.cm²						
3.8 Ohm at 20 °C						
12.2 mH at 20 °C						
3.2 ms at 20 °C						
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						
0.2 x Fr						
Natural convection						
154 mm						
60 mm						
2.5 mm						
4						
5.5 mm						
82 mm						
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	40.0 cm	
Package 1 Length	20.0 cm	
Package 1 Weight	2.0 kg	

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)					
Mercury free	Yes					
China RoHS Regulation	☑ China RoHS Declaration					
RoHS exemption information	₫Yes					
Environmental Disclosure	Product Environmental Profile					
Circularity Profile	No need of specific recycling operations					
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

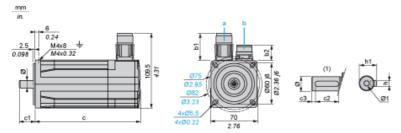
Warranty	18 months

Product data sheet **Dimensions Drawings**

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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:

Dimensions in mm

Straight Rotatable angled connectors		c (without brake)	c (with brake)	с1	c2	сЗ	h	h1	Ø	Ø1 for screws		
b1	b2	b1	b2									
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.

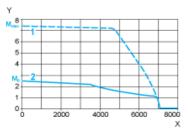
Straight		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	с3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1	1.55	1.55	6.06	7.59	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _{-0.0051}	0.43 k6	M4 x 0.55

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

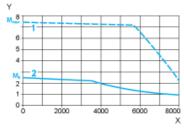


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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