# BMH0703T12A2A

servo motor BMH, Lexium 32, 3.4Nm, 8000rpm, keyed shaft, without brake, IP54, 128 multiturn encoder





#### Main

Widin	
Device short name	ВМН
Product or component type	Servo motor
Maximum mechanical speed	8000 rpm
Continuous stall torque	3.4 N.M for LXM32.D30M2 at 10 A, 115 V, single phase 3.4 N.m for LXM32.D18M2 at 6 A, 230 V, single phase
Peak stall torque	8.7 N.M for LXM32.D30M2 at 10 A, 115 V, single phase 10.2 N.m for LXM32.D18M2 at 6 A, 230 V, single phase
Nominal output power	650 W for LXM32.D30M2 at 10 A, 115 V, single phase 900 W for LXM32.D18M2 at 6 A, 230 V, single phase
Nominal torque	3.1 N.M for LXM32.D30M2 at 10 A, 115 V, single phase 2.9 N.m for LXM32.D18M2 at 6 A, 230 V, single phase
Nominal speed	2000 rpm for LXM32.D30M2 at 10 A, 115 V, single phase 3000 rpm for LXM32.D18M2 at 6 A, 230 V, single phase
Product compatibility	LXM32.D30M2 at 115 V single phase LXM32.D18M2 at 230 V single phase
Shaft end	Keyed
IP degree of protection	IP54 standard
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

#### Complementary

Lexium 32
240 V
Three phase
5.55 A
1.68 W
15 A for LXM32.D30M2 17.8 A for LXM32.D18M2
17.84 A
Without second shaft end
14 mm
30 mm
20 mm
Multiturn SinCos Hiperface
70 mm
3

	0.04.1444400.00
Torque constant	0.61 N.m/A at 120 °C
Back emf constant	39.3 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	1.67 kg.cm²
Stator resistance	1.32 Ohm at 20 °C
Stator inductance	4.3 mH at 20 °C
Stator electrical time constant	3.3 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

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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	

#### 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

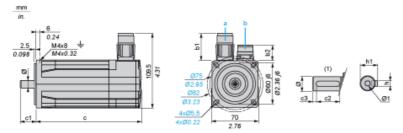
Warranty	18 months
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# Product data sheet **Dimensions Drawings**

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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	traight Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws	
b1	b2	b1	b2									
39.5	25.5	39.5	39.5	186	225	30	20	5	5 h9	16 <sup>+0</sup> <sub>-0.13</sub>	14 k6	M5 x 17

#### Dimensions in in.

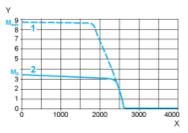
Straight		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	с3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1	1.55	1.55	7.32	8.85	1.18	0.78	0.19	0.20 h9	0.63 <sup>+0</sup> <sub>-0.0051</sub>	0.55 k6	M5 x 0.67

# BMH0703T12A2A

#### 115 V Single-Phase Supply Voltage

## Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

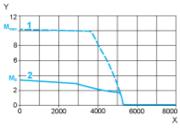


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

## 230 V Single-Phase Supply Voltage

## Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



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