

Product datasheet

Specifications



servo motor BMH, Lexium 32,
1.4Nm, 8000rpm, untapped shaft,
without brake, IP54, 16bit encoder

BMH0701T06A2A

Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	8000 rpm
Continuous stall torque	1.4 N.m for LXM32.U90M2 at 3 A, 230 V, single phase 1.4 N.m for LXM32.D18M2 at 6 A, 115 V, single phase
Peak stall torque	4 N.m for LXM32.U90M2 at 3 A, 230 V, single phase 4.2 N.m for LXM32.D18M2 at 6 A, 115 V, single phase
Nominal output power	450 W for LXM32.U90M2 at 3 A, 230 V, single phase 350 W for LXM32.D18M2 at 6 A, 115 V, single phase
Nominal torque	1.1 N.m for LXM32.U90M2 at 3 A, 230 V, single phase 1.35 N.m for LXM32.D18M2 at 6 A, 115 V, single phase
Nominal speed	4000 rpm for LXM32.U90M2 at 3 A, 230 V, single phase 2500 rpm for LXM32.D18M2 at 6 A, 115 V, single phase
Product compatibility	LXM32.D18M2 at 115 V single phase LXM32.U90M2 at 230 V single phase
Shaft end	Smooth shaft
IP degree of protection	IP54 standard
Speed feedback resolution	32768 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	240 V
Network number of phases	Three phase
Continuous stall current	2.85 A
Continuous power	1.05 W
Maximum current Irms	9.6 A for LXM32.D18M2 9.6 A for LXM32.U90M2
Maximum permanent current	9.56 A
Second shaft	Without second shaft end
Shaft diameter	11 mm

Shaft length	23 mm
Feedback type	Single turn SinCos Hiperface
Motor flange size	70 mm
Number of motor stacks	1
Torque constant	0.49 N.m/A at 120 °C
Back emf constant	31.17 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	0.59 kg.cm²
Stator resistance	3.2 Ohm at 20 °C
Stator inductance	9.1 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
Product weight	1.6 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.2 cm
Package 1 Width	19.0 cm
Package 1 Length	39.5 cm
Package 1 Weight	2.205 kg
Unit Type of Package 2	P06
Number of Units in Package 2	12
Package 2 Height	45.0 cm
Package 2 Width	60.0 cm
Package 2 Length	80.0 cm
Package 2 Weight	33.46 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) EU RoHS Declaration

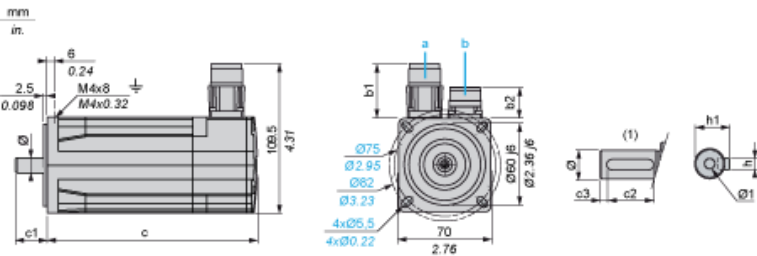
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

Contractual warranty

Warranty	18 months
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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 connect		Rotatable angled		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	122	161	23	18	2.5	4 h9	12.5 ⁺⁰ _{-0.13}	11 k6	M4 x 14

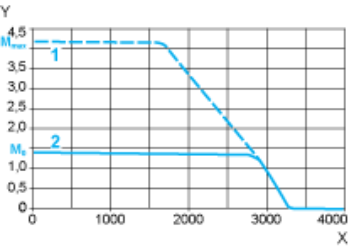
Dimensions in in.

Straight connect		Rotatable angled		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
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

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive

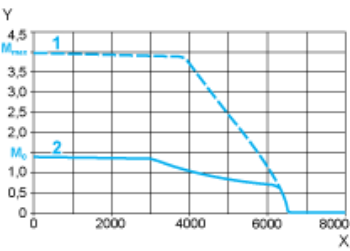


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U90M2 servo drive



- XSpeed in rpm
- YTorque in Nm
- 1Peak torque
- 2Continuous torque

Recommended replacement(s)