Product data sheet

Specification





servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, keyed shaft, without brake, IP65, IP67, 16bit encoder

BMH0702T36A2A

Main

Device short name	вмн
Product or component type	Servo motor
Maximum mechanical speed	8000 rpm
Continuous stall torque	22.1 lbf.in (2.5 N.m) LXM32.D30M2 10 A, 115 V, single phase 22.1 lbf.in (2.5 N.m) LXM32.D18M2 6 A, 230 V, single phase
Peak stall torque	56.6 lbf.in (6.4 N.m) LXM32.D30M2 10 A, 115 V, single phase 65.5 lbf.in (7.4 N.m) LXM32.D18M2 6 A, 230 V, single phase
Nominal output power	600 W LXM32.D30M2 10 A, 115 V, single phase 900 W LXM32.D18M2 6 A, 230 V, single phase
Nominal torque	20.4 lbf.in (2.3 N.m) LXM32.D30M2 10 A, 115 V, single phase 18.6 lbf.in (2.1 N.m) LXM32.D18M2 6 A, 230 V, single phase
Nominal speed	2500 rpm LXM32.D30M2 10 A, 115 V, single phase 4000 rpm LXM32.D18M2 6 A, 230 V, single phase
Product compatibility	LXM32.D30M2 115 V single phase LXM32.D18M2 230 V single phase
Shaft end	Keyed
IP degree of protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	32768 points/turn
Holding brake	Without
mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

J	
Range compatibility	Lexium 32
[Us] rated supply voltage	240 V
Network number of phases	Three phase
Continuous stall current	5.38 A
Continuous power	1.51 W
Maximum current Irms	15 A LXM32.D30M2 17.5 A LXM32.D18M2
Maximum permanent current	17.71 A
Second shaft	Without second shaft end
Shaft diameter	0.4 in (11 mm)
Shaft length	0.9 in (23 mm)

Key width	0.7 in (18 mm)							
Feedback type	Single turn SinCos Hiperface							
Motor flange size	2.8 in (70 mm)							
Number of motor stacks	2							
Torque constant	0.46 N.m/A 248 °F (120 °C)							
Back emf constant	29.6 V/krpm 248 °F (120 °C)							
Number of motor poles	10							
Rotor inertia	1.13 kg.cm²							
Stator resistance	1.15 Ohm 68 °F (20 °C)							
Stator inductance	3.6 mH 68 °F (20 °C)							
Stator electrical time constant	3.1 ms 68 °F (20 °C)							
Maximum radial force Fr	710 N 1000 rpm 560 N 2000 rpm 490 N 3000 rpm 450 N 4000 rpm 410 N 5000 rpm 390 N 6000 rpm							
Maximum axial force Fa	0.2 x Fr							
Type of cooling	Natural convection							
Length	6.06 in (154 mm)							
Centring collar diameter	2.4 in (60 mm)							
Centring collar depth	0.10 in (2.5 mm)							
Number of mounting holes	4							
Mounting holes diameter	0.2 in (5.5 mm)							
Circle diameter of the mounting holes	3.2 in (82 mm)							
Net weight	5.07 lb(US) (2.3 kg)							

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.3 in (11.0 cm)
Package 1 Width	7.3 in (18.5 cm)
Package 1 Length	15.4 in (39.0 cm)
Package 1 Weight	6.495 lb(US) (2.946 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	24
Package 2 Height	30.3 in (77.0 cm)
Package 2 Width	31.5 in (80.0 cm)
Package 2 Length	23.6 in (60.0 cm)
Package 2 Weight	174.615 lb(US) (79.204 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

	Mercury Free	
⊘	Rohs Exemption Information	Yes
⊘	Pvc Free	

Certifications & Standards

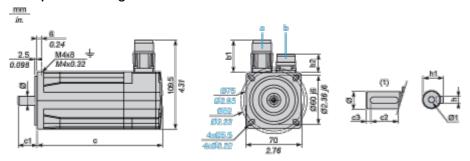
Circularity Profile	No need of specific recycling operations
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Environmental Disclosure	Product Environmental Profile
China Rohs Regulation	China RoHS declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Reach Regulation	REACh Declaration

BMH0702T36A2A

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

		Rotatable angled connectors			c (with	c1	c2	сЗ	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		Rotata angled connec		c (without	c (with brake)	с1	c2	с3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2	brake)								
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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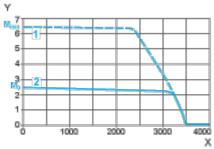
BMH0702T36A2A

Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

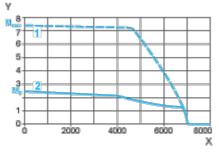


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



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