

servo motor BMH - 2.5 Nm - 8000 rpm - keyed shaft - without brake - IP54

BMH0702T17A2A

Product or component type	Servo motor						
Device short name	ВМН						
Maximum mechanical speed	8000 rpm						
Continuous stall torque	2.5 N.m for LXM32.D30M2 at 10 A, 115 V, single phase 2.5 N.m for LXM32.D18M2 at 6 A, 230 V, single phase						
Peak stall torque	6.4 N.m for LXM32.D30M2 at 10 A, 115 V, single phase 7.4 N.m for LXM32.D18M2 at 6 A, 230 V, single phase						
Nominal output power	600 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	2.3 N.m for LXM32.D30M2 at 10 A, 115 V, single phase 2.1 N.m for LXM32.D18M2 at 6 A, 230 V, single phase						
Nominal speed	2500 rpm for LXM32.D30M2 at 10 A, 115 V, single phase 4000 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	32768 points/turn x 4096 turns						
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	5.38 A
Continuous power	1.51 W
Maximum current Irms	15 A for LXM32.D30M2 17.5 A for LXM32.D18M2
Maximum permanent current	17.71 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	0.46 N.m/A at 120 °C
Back emf constant	29.6 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	1.13 kg.cm²
Stator resistance	1.15 Ohm at 20 °C
Stator inductance	3.6 mH at 20 °C
Stator electrical time constant	3.1 ms at 20 °C
Maximum radial force Fr	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
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	154 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	2.3 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	2.931 kg
Package 1 Height	11 cm
Package 1 width	20 cm
Package 1 Length	40 cm

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					
RoHS exemption information	Yes					
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						
PVC free	Yes						
Contractual warranty							
Warranty	18 months						

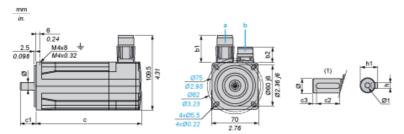
Product datasheet

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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 connect Rotatable angled		le angled	c (without brake	c (with brake	с1	c2	с3	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	conne	Rotatable angled		Rotatable angled		Rotatable angled		Rotatable angled		Rotatable angle		c (without br	c (with bra	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								

Product datasheet

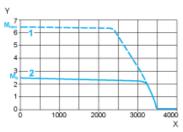
BMH0702T17A2A

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

Product datasheet

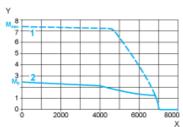
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Performance Curves

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