Product datasheet





servo motor BCH, Lexium 28, 130mm, 600W, with oil seal, smooth, straight connection

BCH2MM0612CA6C

Discontinued on: 1 Nov 2020



Main

Range compatibility	Lexium 28
Device short name	BCH2
Product or component type	Servo motor

Complementary

Complementary		
Maximum mechanical speed	3000 rpm	
[Us] rated supply voltage	220 V 110 V	
Network number of phases	Three phase Single phase	
Continuous stall current	3.77 A	
Continuous stall torque	5.73 N.m for LXM28 at 4.5 A, 220 V, single phase 5.73 N.m for LXM28 at 4.5 A, 220 V, three phase 5.73 N.m for LXM28 at 9 A, 110 V, single phase	
Continuous power	600 W	
Peak stall torque	17.19 N.m for LXM28 at 4.5 A, 220 V, single phase 17.19 N.m for LXM28 at 4.5 A, 220 V, three phase 17.19 N.m for LXM28 at 9 A, 110 V, single phase	
Nominal output power	600 W for LXM28 at 4.5 A, 220 V, single phase 600 W for LXM28 at 4.5 A, 220 V, three phase 600 W for LXM28 at 9 A, 110 V, single phase	
Nominal torque	5.73 N.m for LXM28 at 4.5 A, 220 V, single phase 5.73 N.m for LXM28 at 4.5 A, 220 V, three phase 5.73 N.m for LXM28 at 9 A, 110 V, single phase	
Nominal speed	1000 rpm for LXM28 at 4.5 A, 220 V, single phase 1000 rpm for LXM28 at 4.5 A, 220 V, three phase 1000 rpm for LXM28 at 9 A, 110 V, single phase	
Maximum current Irms	13.44 A for LXM28 at 0.6 kW, 220 V 13.44 A for LXM28 at 0.6 kW, 110 V	
Maximum permanent current	4.1 A	
Product compatibility	LXM28 servo drive motor at 0.6 kW, 220 V, single phase LXM28 servo drive motor at 0.6 kW, 220 V, three phase LXM28 servo drive motor at 0.6 kW, 110 V, single phase	
Shaft end	Smooth shaft	
Shaft diameter	22 mm	
Shaft length	45 mm	
Feedback type	20 bits single turn absolute encoder	
Holding brake	Without	

mounting support	Asian standard flange
Motor flange size	130 mm
Electrical connection	Connector MIL
Torque constant	1.52 N.m/A at 20 °C
Back emf constant	92 V/krpm at 20 °C
Rotor inertia	6.63 kg.cm²
Stator resistance	1.93 Ohm at 20 °C
Stator inductance	24.9 mH at 20 °C
Stator electrical time constant	12.9 ms at 20 °C
Maximum radial force Fr	670 N at 1000 rpm
Maximum axial force Fa	200 N
Brake pull-in power	19.7 W
Type of cooling	Natural convection
Length	147 mm
Number of motor stacks	1
Centring collar diameter	110 mm
Centring collar depth	8 mm
Number of mounting holes	4
Mounting holes diameter	9.2 mm
Circle diameter of the mounting holes	145 mm
Distance shaft shoulder-flange	8 mm
Net weight	7 kg

Environment

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1	
Ambient air temperature for operation	-2040 °C	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	18.1 cm
Package 1 Width	23.0 cm
Package 1 Length	36.0 cm
Package 1 Weight	8.07 kg



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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

	Reach Free Of Svhc	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes

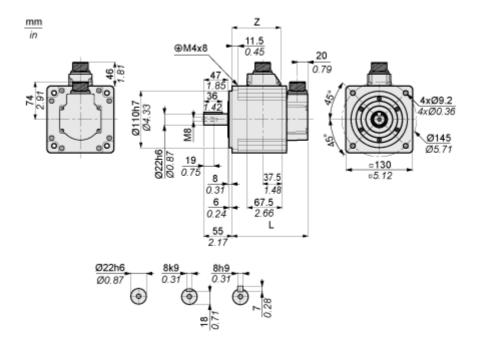
Certifications & Standards

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
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	
Circularity Profile	End of Life Information	

Dimensions Drawings

Dimensions

Dimensions of Motor



	mm	in.
L (without holding brake)	147	5.79
L (with holding brake)	183	7.2
Z	94.5	3.72

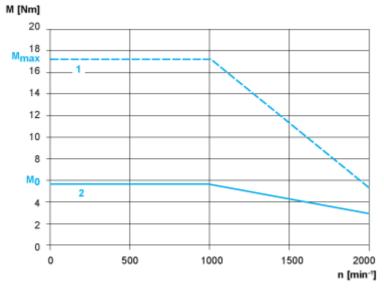
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Performance Curves

Torque/Speed Curves with 230 V Single/Three Phase Supply Voltage

Servo Motor with LXM28AU02●●● Servo Drive



- 1: Peak torque
- 2: Continuous torque