Product datasheet

Specification





servo motor BCH, Lexium 28, 130mm, 300W, 6.63kg.cm², with oil seal, with key, straight connection

BCH2MM0313CA6C

Main

Range compatibility	Lexium 28
Device short name	BCH2
Product or component type	Servo motor
Complementary	
Maximum mechanical speed	3000 rpm
[Us] rated supply voltage	220 V

300 W for LXM28... at 5.7 A, 110 V, single phase

1000 rpm for LXM28... at 5.7 A, 110 V, single phase

Network number of phases	Single phase Three phase	
Continuous stall current	1.88 A	
Continuous stall torque	2.86 N.m for LXM26D at 2.6 A, 220 V, single ph 2.86 N.m for LXM26D at 2.6 A, 220 V, three pha	

110 V

Continuous power	300 W
	2.86 N.m for LXM28 at 2.6 A, 220 V, three phase 2.86 N.m for LXM28 at 5.7 A, 110 V, single phase
	2.86 N.m for LXM28 at 2.6 A, 220 V, single phase
	2.00 N.III IOI LAWIZOD at 2.0 A, 220 V, tillee phase

Peak stall torque	8.59 N.m for LXM26D at 2.6 A, 220 V, single phase
	8.59 N.m for LXM26D at 2.6 A, 220 V, three phase
	8.59 N.m for LXM28 at 2.6 A, 220 V, single phase
	8.59 N.m for LXM28 at 2.6 A, 220 V, three phase
	8.59 N.m for LXM28 at 5.7 A, 110 V, single phase

Nominal output power	300 W for LXM26D at 2.6 A, 220 V, single phase
	300 W for LXM26D at 2.6 A, 220 V, three phase
	300 W for LXM28 at 2.6 A, 220 V, single phase
	300 W for LXM28 at 2.6 A, 220 V, three phase

Nominal torque	2.86 N.m for LXM26D at 2.6 A, 220 V, single phase
	2.86 N.m for LXM26D at 2.6 A, 220 V, three phase
	2.86 N.m for LXM28 at 2.6 A, 220 V, single phase
	2.86 N.m for LXM28 at 2.6 A, 220 V, three phase
	2.86 N.m for LXM28 at 5.7 A, 110 V, single phase

Nominal speed	1000 rpm for LXM26D at 2.6 A, 220 V, single phase
	1000 rpm for LXM26D at 2.6 A, 220 V, three phase
	1000 rpm for LXM28 at 2.6 A, 220 V, single phase
	1000 rpm for LXM28 at 2.6 A, 220 V, three phase

Maximum current Irms	5.98 A for LXM28 at 0.3 kW, 220 V
	5.98 A for LXM28 at 0.3 kW, 110 V

Maximum permanent current 2.09 A



Product compatibility	LXM26D servo drive motor at 0.3 kW, 220 V, single phase LXM26D servo drive motor at 0.3 kW, 220 V, three phase LXM28 servo drive motor at 0.3 kW, 220 V, single phase LXM28 servo drive motor at 0.3 kW, 220 V, three phase LXM28 servo drive motor at 0.3 kW, 210 V, single phase LXM28 servo drive motor at 0.3 kW, 110 V, single phase
Shaft end	Keyed
Shaft diameter	22 mm
Shaft length	45 mm
Key width	8 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	-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 cm
Package 1 Length	36 cm
Package 1 Weight	7910 g



Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

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

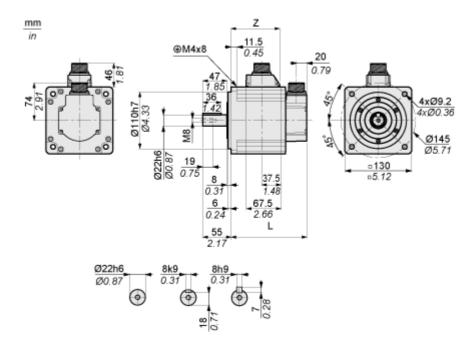
Certifications & Standards

Circularity Profile	End of Life Information
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

Dimensions Drawings

Dimensions

Dimensions of Motor



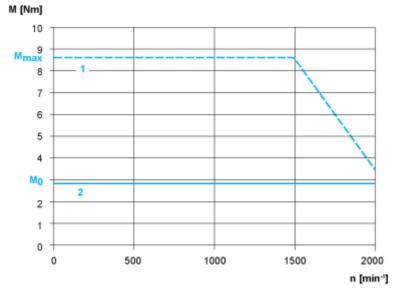
	mm	in.
L (without holding brake)	147	5.79
L (with holding brake)	183	7.2
Z	94.5	3.72

BCH2MM0313CA6C

Performance Curves

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

Servo Motor with LXM28AU04●●● Servo Drive



- 1: Peak torque
- 2: Continuous torque