

Product data sheet

Specifications



servo motor BCH, Lexium 28,
130mm, 300W, 6.63kg.cm², without
oil seal, smooth, straight connection

BCH2MM0310CA6C

⚠ Discontinued on: Jun 30, 2023

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Product availability: Non-Stock - Not normally stocked in
distribution facility

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 110 V
Phase	Three phase Single phase
Continuous stall current	1.88 A
Continuous stall torque	25.31 lbf.in (2.86 N.m) LXM28 2.6 A, 220 V, single phase 25.31 lbf.in (2.86 N.m) LXM28 2.6 A, 220 V, three phase 25.31 lbf.in (2.86 N.m) LXM28 5.7 A, 110 V, single phase
Continuous power	300 W
Peak stall torque	76.03 lbf.in (8.59 N.m) LXM28... 2.6 A, 220 V, single phase 76.03 lbf.in (8.59 N.m) LXM28... 2.6 A, 220 V, three phase 76.03 lbf.in (8.59 N.m) LXM28... 5.7 A, 110 V, single phase
Nominal output power	300 W LXM28... 2.6 A, 220 V, single phase 300 W LXM28... 2.6 A, 220 V, three phase 300 W LXM28... 5.7 A, 110 V, single phase
Nominal torque	25.31 lbf.in (2.86 N.m) LXM28... 2.6 A, 220 V, single phase 25.31 lbf.in (2.86 N.m) LXM28... 2.6 A, 220 V, three phase 25.31 lbf.in (2.86 N.m) LXM28... 5.7 A, 110 V, single phase
Nominal speed	1000 rpm LXM28... 2.6 A, 220 V, single phase 1000 rpm LXM28... 2.6 A, 220 V, three phase 1000 rpm LXM28... 5.7 A, 110 V, single phase
Maximum current Irms	5.98 A LXM28... 0.3 kW, 220 V 5.98 A LXM28... 0.3 kW, 110 V
Maximum permanent current	2.09 A
Product compatibility	LXM28... servo drive 0.3 kW, 220 V, single phase LXM28... servo drive 0.3 kW, 220 V, three phase LXM28... servo drive 0.3 kW, 110 V, single phase
Shaft end	Smooth shaft
Shaft diameter	0.9 in (22 mm)
Shaft length	1.8 in (45 mm)
Feedback type	20 bits single turn absolute encoder

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Holding brake	Without
Mounting Support	Asian standard flange
Motor flange size	5.1 in (130 mm)
Electrical connection	Connector MIL
Torque constant	1.52 N.m/A 68 °F (20 °C)
Back emf constant	92 V/krpm 68 °F (20 °C)
Rotor inertia	6.63 kg.cm²
Stator resistance	1.93 Ohm 68 °F (20 °C)
Stator inductance	24.9 mH 68 °F (20 °C)
Stator electrical time constant	12.9 ms 68 °F (20 °C)
Maximum radial force Fr	670 N 1000 rpm
Maximum axial force Fa	200 N
Brake pull-in power	19.7 W
Type of cooling	Natural convection
Length	5.8 in (147 mm)
Number of motor stacks	1
Centring collar diameter	4.3 in (110 mm)
Centring collar depth	0.3 in (8 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (9.2 mm)
Circle diameter of the mounting holes	5.7 in (145 mm)
Distance shaft shoulder-flange	0.3 in (8 mm)
Net Weight	15.4 lb(US) (7 kg)
Sizing reference	BCH2
Network number of phases	1
Accuracy error [angular]	0.044 °
Temperature copper hot	275 °F (135 °C)
Temperature magnet hot	212 °F (100 °C)
Temperature magnet rt	68 °F (20 °C)

Environment

IP Degree of Protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient Air Temperature for Operation	-4...104 °F (-20...40 °C)

Ordering and shipping details

Category	US1PC5318281
Discount Schedule	PC53
GTIN	3606480734441
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	7.1 in (18.1 cm)
Package 1 Width	9.06 in (23.0 cm)
Package 1 Length	14.2 in (36.0 cm)
Package weight(Lbs)	17.44 lb(US) (7.91 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Environmental Disclosure

[Product Environmental Profile](#)

Use Better



Materials and Substances

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

California proposition 65

WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

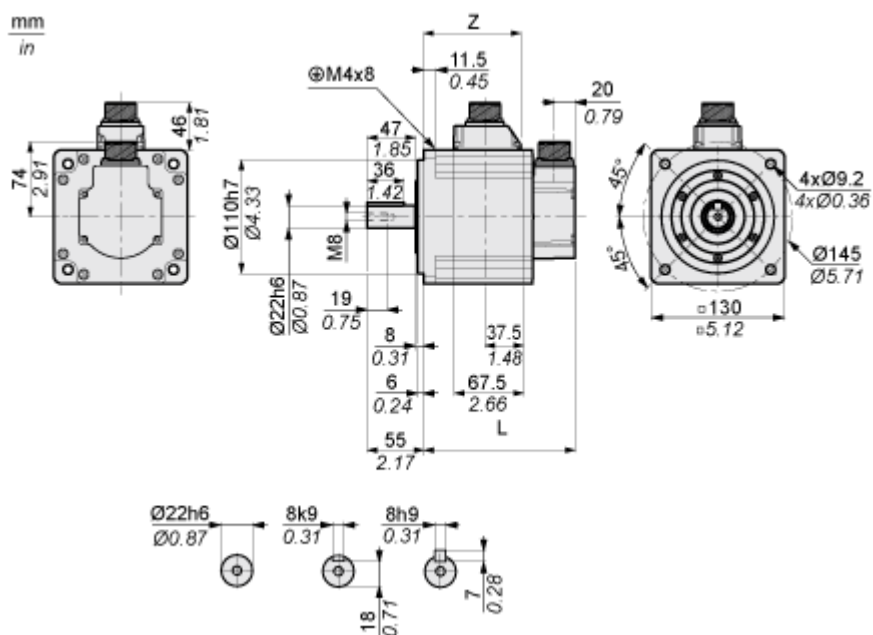
Circularity Profile

[End of Life Information](#)

Dimensions Drawings

Dimensions

Dimensions of Motor

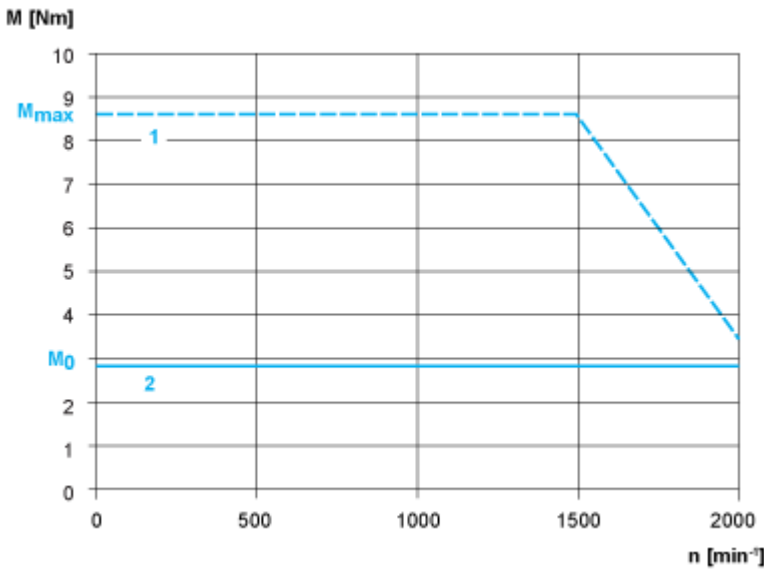


	mm	in.
L (without holding brake)	147	5.79
L (with holding brake)	183	7.2
Z	94.5	3.72

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