

# Product data sheet

Specifications



servo motor BCH, Lexium 28,  
40mm, 100W, 0.075kg.cm<sup>2</sup>,  
without oil seal, smooth, leads  
connection

BCH2MB0130CA5C

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

Price\*: 1,264.59 USD

## Main

Range Compatibility	Lexium 28
Device short name	BCH2
Product or Component Type	Servo motor

## Complementary

Maximum mechanical speed	5000 rpm
[Us] rated supply voltage	220 V 110 V
Phase	Single phase Three phase
Continuous stall current	0.81 A
Continuous stall torque	2.83 lbf.in (0.32 N.m) LXM28... 0.9 A, 220 V, single phase 2.83 lbf.in (0.32 N.m) LXM28... 0.9 A, 220 V, three phase 2.83 lbf.in (0.32 N.m) LXM28... 1.8 A, 110 V, single phase
Continuous power	100 W
Peak stall torque	8.50 lbf.in (0.96 N.m) LXM28... 0.9 A, 220 V, single phase 8.50 lbf.in (0.96 N.m) LXM28... 0.9 A, 220 V, three phase 8.50 lbf.in (0.96 N.m) LXM28... 1.8 A, 110 V, single phase
Nominal output power	100 W LXM28... 0.9 A, 220 V, single phase 100 W LXM28... 0.9 A, 220 V, three phase 100 W LXM28... 1.8 A, 110 V, single phase
Nominal torque	2.83 lbf.in (0.32 N.m) LXM28... 0.9 A, 220 V, single phase 2.83 lbf.in (0.32 N.m) LXM28... 0.9 A, 220 V, three phase 2.83 lbf.in (0.32 N.m) LXM28... 1.8 A, 110 V, single phase
Nominal speed	3000 rpm LXM28... 0.9 A, 220 V, single phase 3000 rpm LXM28... 0.9 A, 220 V, three phase 3000 rpm LXM28... 1.8 A, 110 V, single phase
Maximum current Irms	2.65 A LXM28... 0.1 kW, 220 V 2.65 A LXM28... 0.1 kW, 110 V
Maximum permanent current	0.89 A
Product compatibility	LXM28... servo drive 0.1 kW, 220 V, single phase LXM28... servo drive 0.1 kW, 220 V, three phase LXM28... servo drive 0.1 kW, 110 V, single phase
Shaft end	Smooth shaft
Shaft diameter	0.3 in (8 mm)
Shaft length	1.0 in (25 mm)

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

Feedback type	20 bits single turn absolute encoder
Holding brake	Without
Mounting Support	Asian standard flange
Motor flange size	1.6 in (40 mm)
Electrical connection	Free lead
Torque constant	0.4 N.m/A 68 °F (20 °C)
Back emf constant	24 V/krpm 68 °F (20 °C)
Rotor inertia	0.075 kg.cm²
Stator resistance	23.4 Ohm 68 °F (20 °C)
Stator inductance	20.6 mH 68 °F (20 °C)
Stator electrical time constant	0.88 ms 68 °F (20 °C)
Maximum radial force Fr	85 N 3000 rpm
Maximum axial force Fa	40 N
Brake pull-in power	4.35 W
Type of cooling	Natural convection
Length	3.9 in (100 mm)
Number of motor stacks	2
Centring collar diameter	1.2 in (30 mm)
Centring collar depth	0.1 in (3 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (4.5 mm)
Circle diameter of the mounting holes	1.8 in (46 mm)
Distance shaft shoulder-flange	0.1 in (3 mm)
Net Weight	1.23 lb(US) (0.56 kg)

## 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	3606480733406
Returnability	No
Country of origin	CN

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.1 in (8.0 cm)
Package 1 Width	5.1 in (13.0 cm)

Package 1 Length	9.4 in (24.0 cm)
Package 1 Weight	27.6 oz (783.0 g)

Sustainability



**Green Premium™** label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> 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	
✓	Mercury Free	
✓	Rohs Exemption Information	Yes
✓	Pvc Free	

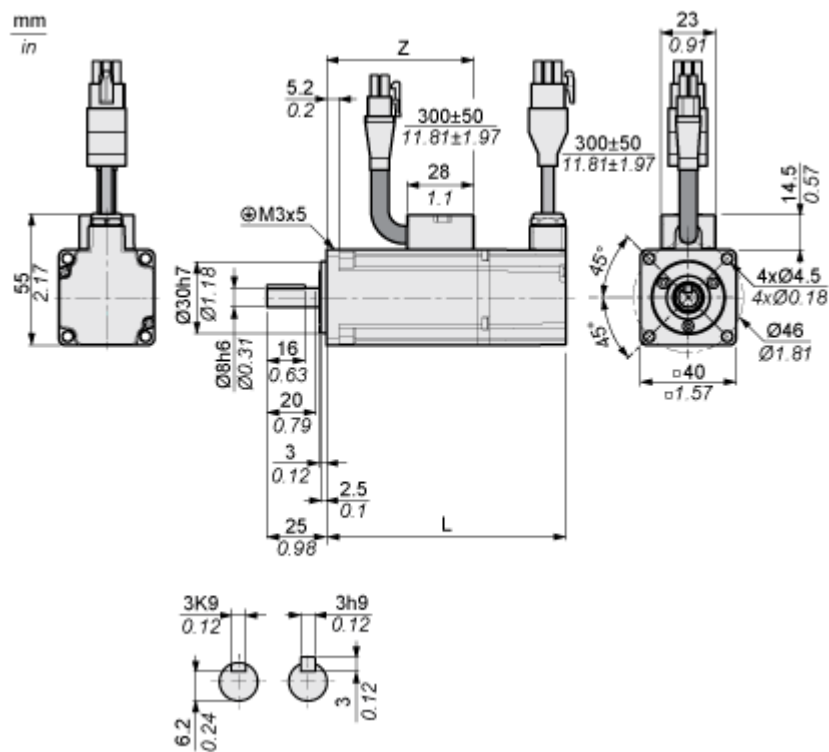
## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	<a href="#">End of Life Information</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Dimensions Drawings

Dimensions

Dimensions of Motor

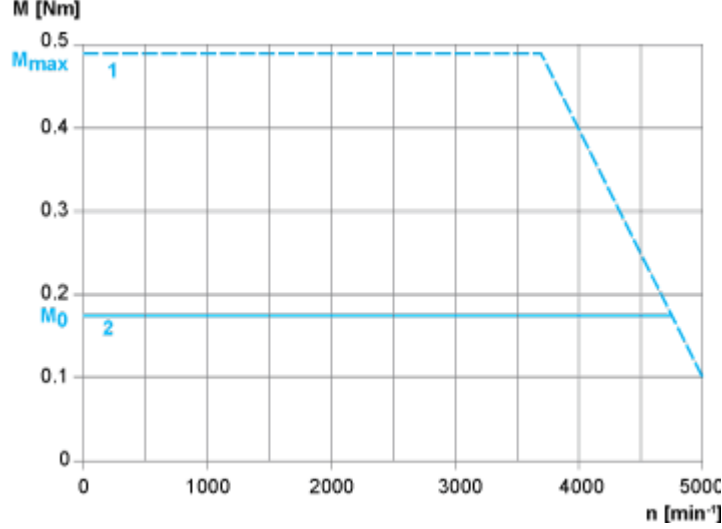


	mm	in.
L (without holding brake)	100	3.94
L (with holding brake)	130	5.12
Z	61.5	2.42

Performance Curves

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

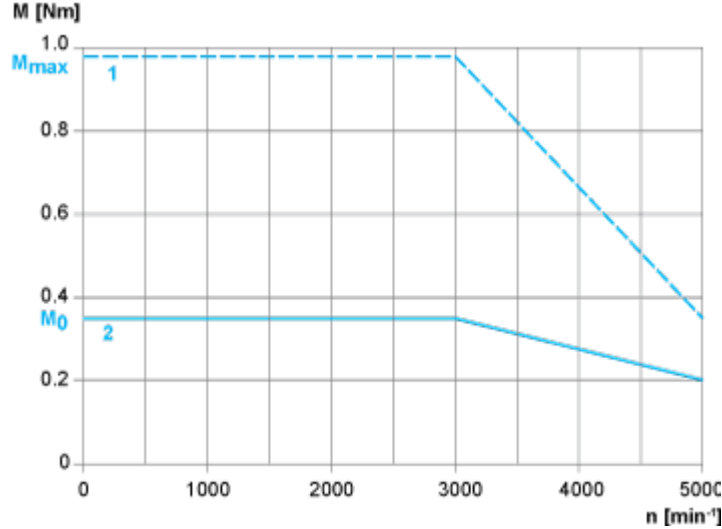
Servo Motor without shaft sealing ring and LXM28AU01 Servo Drive



- 1 : Peak torque
- 2 : Continuous torque

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

Servo Motor with shaft sealing ring and LXM28AU01 Servo Drive



- 1 : Peak torque
- 2 : Continuous torque