

Product data sheet

Specifications



servo motor BCH, Lexium 28,
40mm, 100W, 0.075kg.cm², with oil
seal, smooth, leads connection

BCH2MB0132CA5C

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	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)
Feedback type	20 bits single turn absolute encoder
Holding brake	Without

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

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)
Number of motor poles	4.0
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)
Product Weight	1.23 lb(US) (0.56 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	IP50 IM V3 IP65 IM B5, IM V1
Ambient Air Temperature for Operation	-4...104 °F (-20...40 °C)

Ordering and shipping details

Category	US1PC5318281
Discount Schedule	PC53
GTIN	3606480733444
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.35 in (8.500 cm)
Package 1 Width	5.12 in (13.000 cm)
Package 1 Length	9.84 in (25.000 cm)
Package weight(Lbs)	30.300 oz (859.000 g)

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	
Carbon footprint (kg CO2 eq, Total Life cycle)	1075
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	REACH Declaration
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
PVC free	Yes

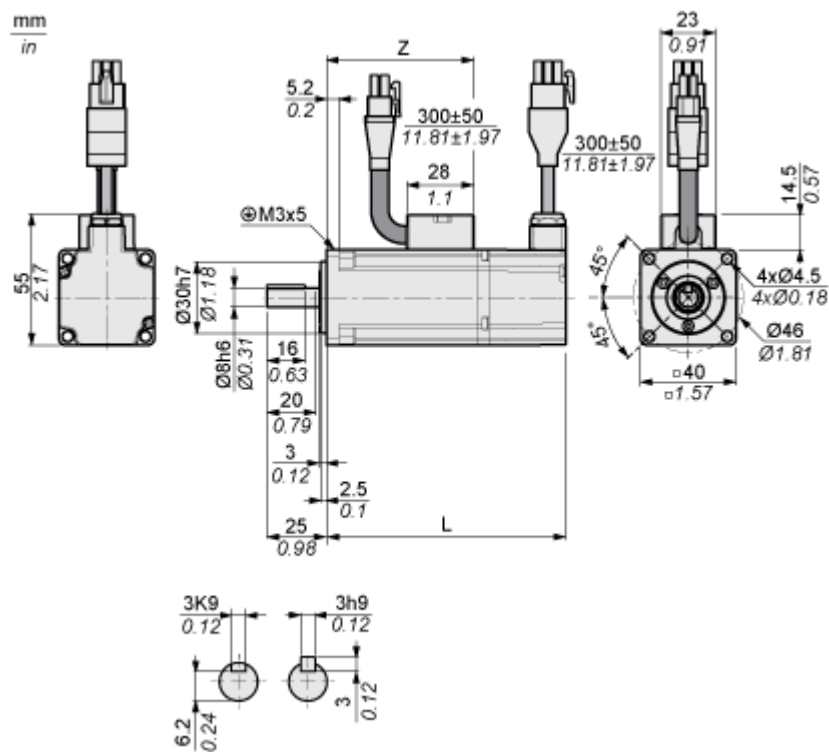
Use Again

Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

Dimensions Drawings

Dimensions

Dimensions of Motor

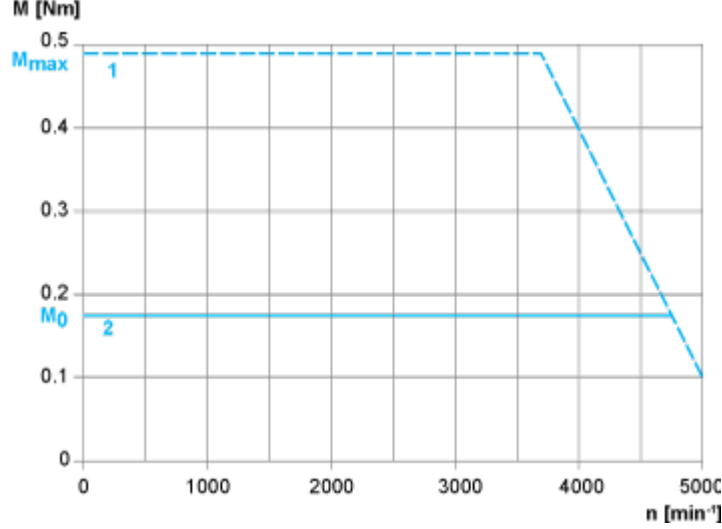


	mm	in.
L (without holding brake)	100	3.94
L (with holding brake)	130	5.12
Z	61.5	2.42

Performance Curves

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

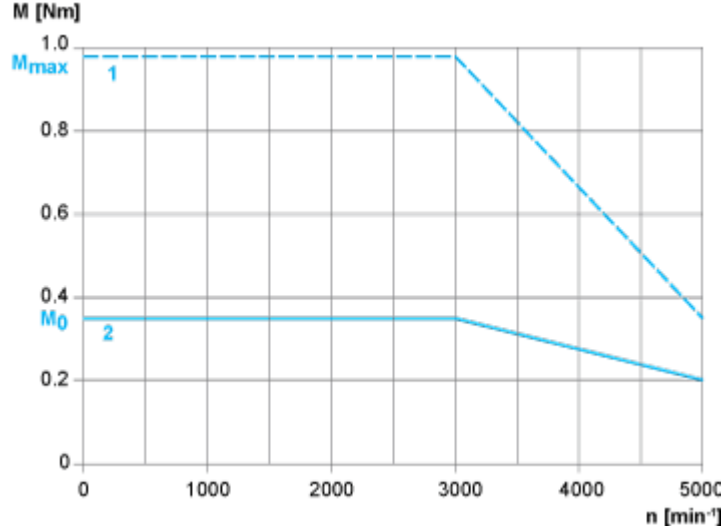
Servo Motor without shaft sealing ring and LXM28AU01 Servo Drive



- 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