

Product data sheet

Specifications



servo motor BCH, Lexium 28,
40mm, 100W, 0.076kg.cm², with oil
seal, with key, brake, leads
connection

BCH2MB0133CF5C

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

Main

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

Complementary

Maximum mechanical speed	5000 rpm
[Us] rated supply voltage	220 V 110 V
Phase	Three phase Single phase
Continuous stall current	0.81 A
Continuous stall torque	2.83 lbf.in (0.32 N.m) LXM26D 0.9 A, 220 V, single phase 2.83 lbf.in (0.32 N.m) LXM26D 0.9 A, 220 V, three phase 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) LXM26D 0.9 A, 220 V, single phase 8.50 lbf.in (0.96 N.m) LXM26D 0.9 A, 220 V, three phase 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 LXM26D 0.9 A, 220 V, single phase 100 W LXM26D 0.9 A, 220 V, three phase 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) LXM26D 0.9 A, 220 V, single phase 2.83 lbf.in (0.32 N.m) LXM26D 0.9 A, 220 V, three phase 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 LXM26D 0.9 A, 220 V, single phase 3000 rpm LXM26D 0.9 A, 220 V, three phase 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

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

Product compatibility	LXM26D servo drive 0.1 kW, 220 V, single phase LXM26D servo drive 0.1 kW, 220 V, three phase 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	Keyed
Shaft diameter	0.3 in (8 mm)
Shaft length	1.0 in (25 mm)
Key width	0.1 in (3 mm)
Feedback type	20 bits single turn absolute encoder
Holding brake	With
Holding torque	2.83 lbf.in (0.32 N.m) built-in
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	0.076 kg.cm ²
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	5.1 in (130 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	1.70 lb(US) (0.77 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)
Inertia	0.066 kg.cm ² of brake 0.076 kg.cm ² of motor

Environment

IP Degree of Protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient Air Temperature for Operation	32...104 °F (0...40 °C)

Ordering and shipping details

Category	US1000I22000
Discount Schedule	000I
GTIN	3606480733475
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.346 in (8.500 cm)
Package 1 Width	5.118 in (13.000 cm)
Package 1 Length	9.528 in (24.200 cm)
Package weight(Lbs)	2.275 lb(US) (1.032 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	3
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	7.696 lb(US) (3.491 kg)

Contractual warranty

Warranty (in months)	18
----------------------	----



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

Total lifecycle Carbon footprint	1 077 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	6 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 071 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
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	Compliant
REACH Regulation	Free of Substances of Very High Concern above the threshold
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 Longer



Lifetime extension

Repair	No
--------	----

Use Again



Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	No

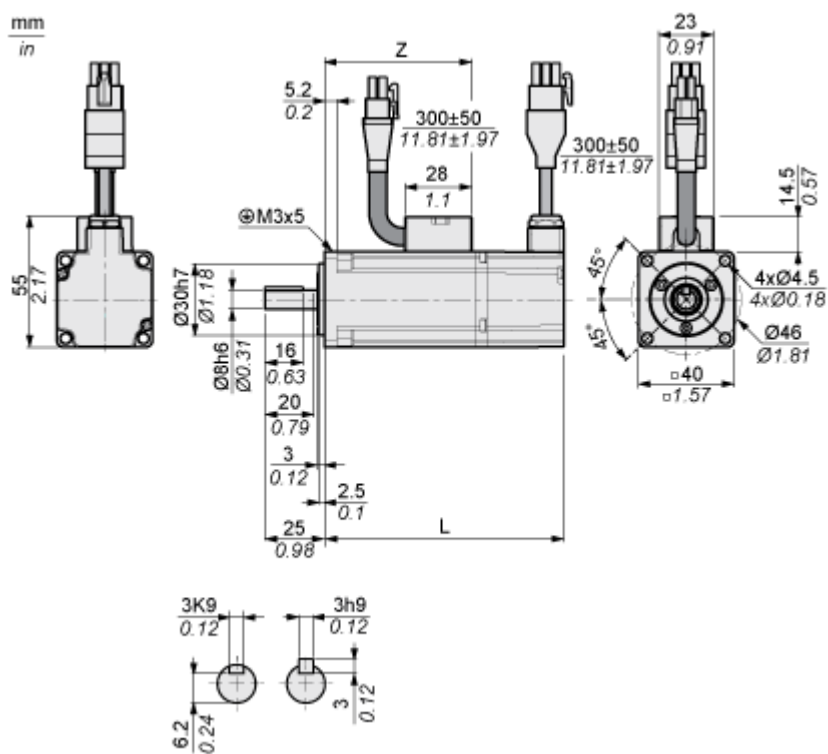
Product data sheet

BCH2MB0133CF5C

Dimensions Drawings

Dimensions

Dimensions of Motor

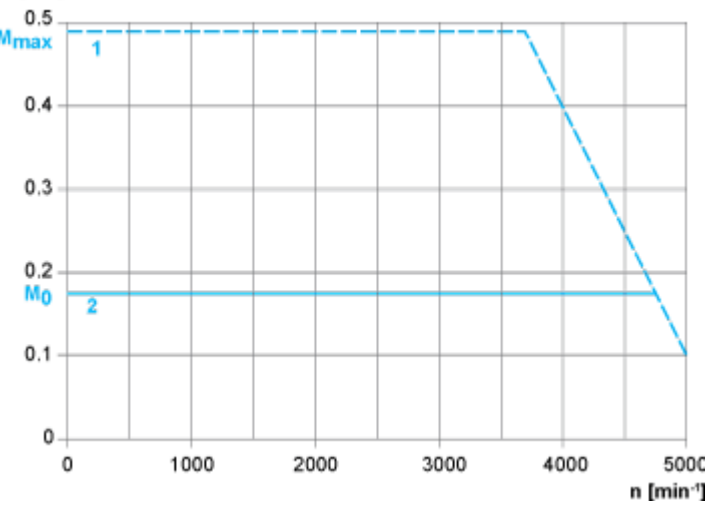


	mm	in.
L (without holding brake)	100	3.94
L (with holding brake)	130	5.12
Z	61.5	2.42

Performance Curves

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

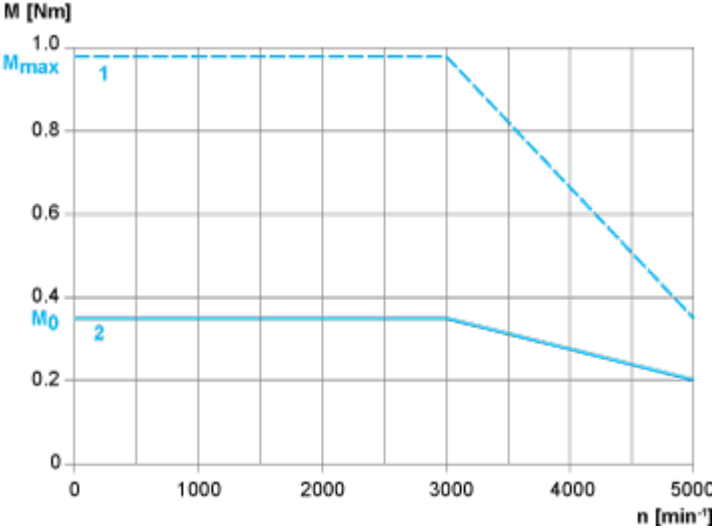
Servo Motor without shaft sealing ring and LXM28AU01 Servo Drive



- 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