

Product data sheet

Specifications



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

BCH2MB0132CF5C

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
Network number of phases	Single phase Three phase
Continuous stall current	0.81 A
Continuous stall torque	0.32 N.m for LXM28 at 0.9 A, 220 V, single phase 0.32 N.m for LXM28 at 0.9 A, 220 V, three phase 0.32 N.m for LXM28 at 1.8 A, 110 V, single phase
Continuous power	100 W
Peak stall torque	0.96 N.m for LXM28... at 0.9 A, 220 V, single phase 0.96 N.m for LXM28... at 0.9 A, 220 V, three phase 0.96 N.m for LXM28... at 1.8 A, 110 V, single phase
Nominal output power	100 W for LXM28... at 0.9 A, 220 V, single phase 100 W for LXM28... at 0.9 A, 220 V, three phase 100 W for LXM28... at 1.8 A, 110 V, single phase
Nominal torque	0.32 N.m for LXM28... at 0.9 A, 220 V, single phase 0.32 N.m for LXM28... at 0.9 A, 220 V, three phase 0.32 N.m for LXM28... at 1.8 A, 110 V, single phase
Nominal speed	3000 rpm for LXM28... at 0.9 A, 220 V, single phase 3000 rpm for LXM28... at 0.9 A, 220 V, three phase 3000 rpm for LXM28... at 1.8 A, 110 V, single phase
Maximum current Irms	2.65 A for LXM28... at 0.1 kW, 220 V 2.65 A for LXM28... at 0.1 kW, 110 V
Maximum permanent current	0.89 A
Product compatibility	LXM28... servo drive motor at 0.1 kW, 220 V, single phase LXM28... servo drive motor at 0.1 kW, 220 V, three phase LXM28... servo drive motor at 0.1 kW, 110 V, single phase
Shaft end	Smooth shaft
Shaft diameter	8 mm
Shaft length	25 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	With
Holding torque	0.32 N.m built-in

Mounting support	Asian standard flange
Motor flange size	40 mm
Electrical connection	Free lead
Torque constant	0.4 N.m/A at 20 °C
Back emf constant	24 V/krpm at 20 °C
Number of motor poles	4.0
Rotor inertia	0.076 kg.cm ²
Stator resistance	23.4 Ohm at 20 °C
Stator inductance	20.6 mH at 20 °C
Stator electrical time constant	0.88 ms at 20 °C
Maximum radial force Fr	85 N at 3000 rpm
Maximum axial force Fa	40 N
Brake pull-in power	4.35 W
Type of cooling	Natural convection
Length	130 mm
Number of motor stacks	2
Centring collar diameter	30 mm
Centring collar depth	3 mm
Number of mounting holes	4
Mounting holes diameter	4.5 mm
Circle diameter of the mounting holes	46 mm
Distance shaft shoulder-flange	3 mm
Product weight	0.77 kg
Sizing reference	BCH2
Network number of phases	1
Accuracy error [angular]	0.044 °
Temperature copper hot	135 °C
Temperature magnet hot	100 °C
Temperature magnet rt	20 °C

Environment

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient air temperature for operation	0...40 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.0 cm
Package 1 Width	13.0 cm
Package 1 Length	24.0 cm

Package 1 Weight

933.0 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

Total lifecycle Carbon footprint	1076
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Environmental Disclosure	Product Environmental Profile
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Use Better

Materials and Substances

Packaging made with recycled cardboard	No
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Packaging without single use plastic	No
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EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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REACH Regulation	REACH Declaration
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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
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Use Again

Repack and remanufacture

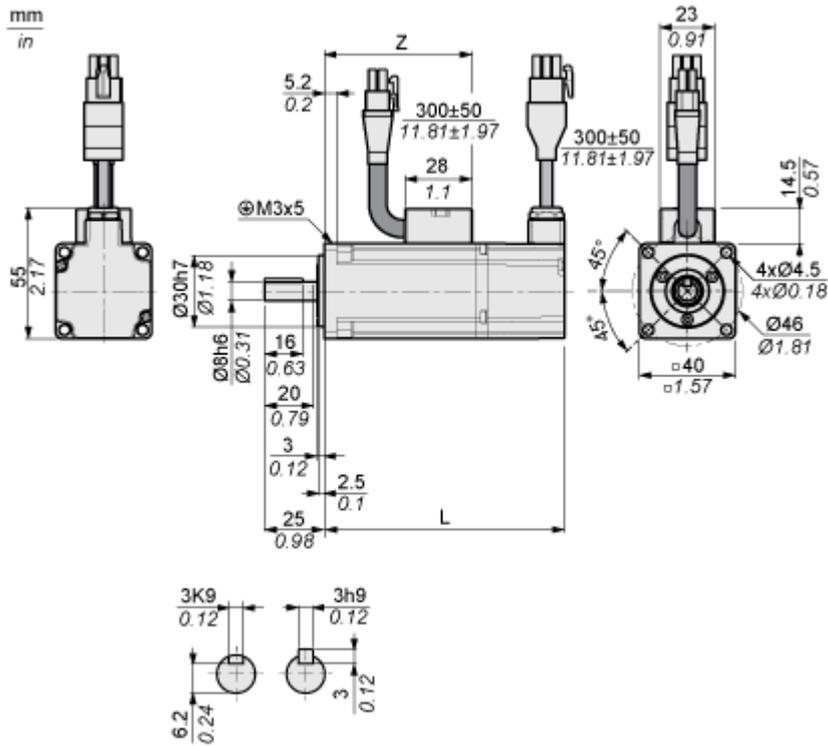
End of life manual availability	End of Life Information
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Take-back	No
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Dimensions Drawings

Dimensions

Dimensions of Motor

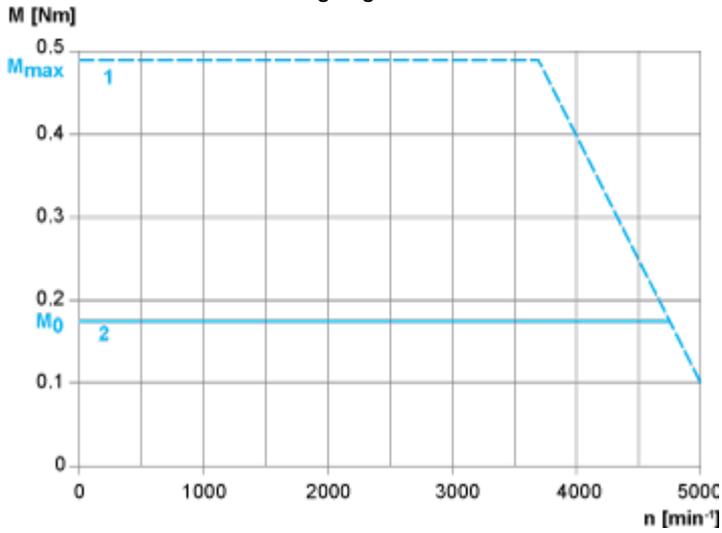


	mm	in.
L (without holding brake)	100	3.94
L (with holding brake)	130	5.12
Z	61.5	2.42

Performance Curves

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

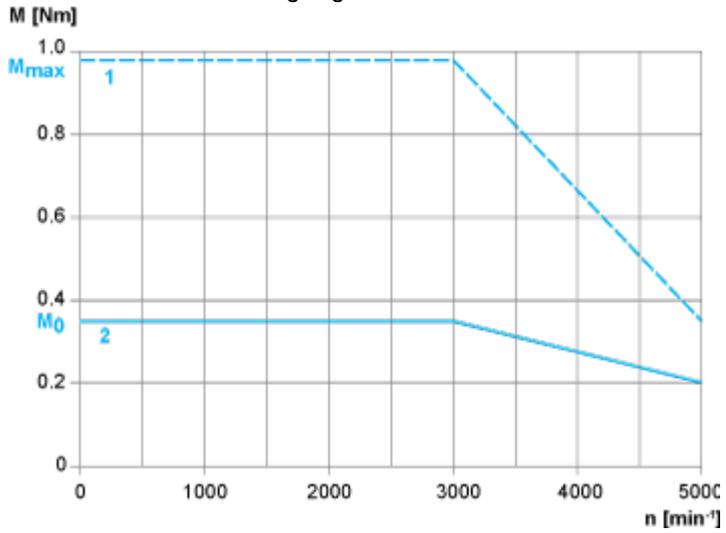
Servo Motor without shaft sealing ring and LXM28AU01 Servo Drive



- 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