

Product datasheet

Specifications



servo motor BCH, 40mm, 100W, w
oil seal, smooth, leads con

BCH2MB0132CA5C

EAN Code: 3606480733444

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	Without
Mounting support	Asian standard flange

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

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	0.075 kg.cm²
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	100 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
Net weight	0.56 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	-20...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	781.5 g

Unit Type of Package 2	S02
Number of Units in Package 2	3
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.706 kg

Logistical informations

Country of origin	CN
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Contractual warranty

Warranty	18 months
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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	
Carbon footprint (kg.eq.CO2 per CR, 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
PVC free	Yes

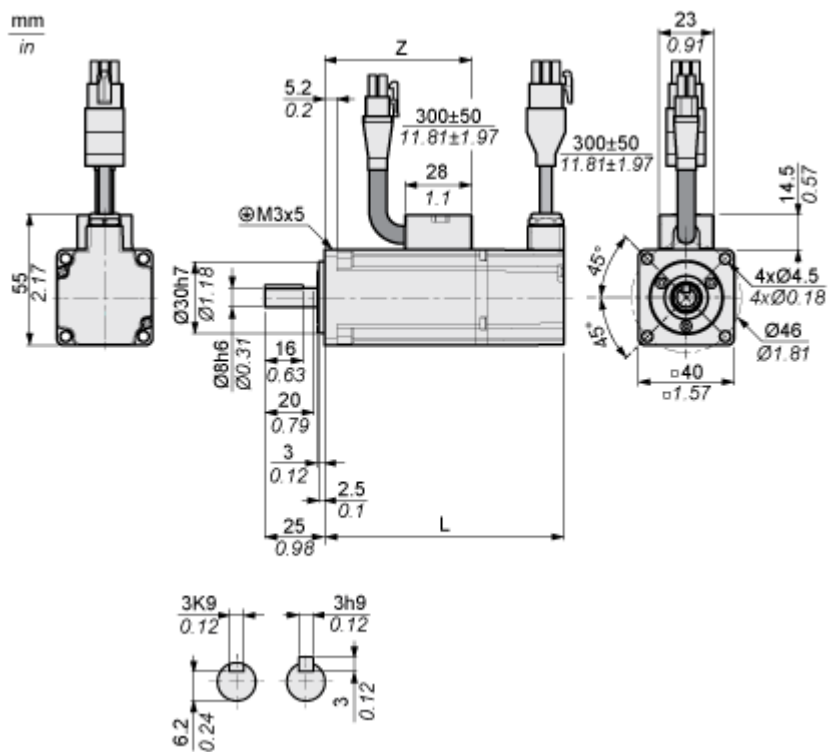
Use Again

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

Dimensions Drawings

Dimensions

Dimensions of Motor

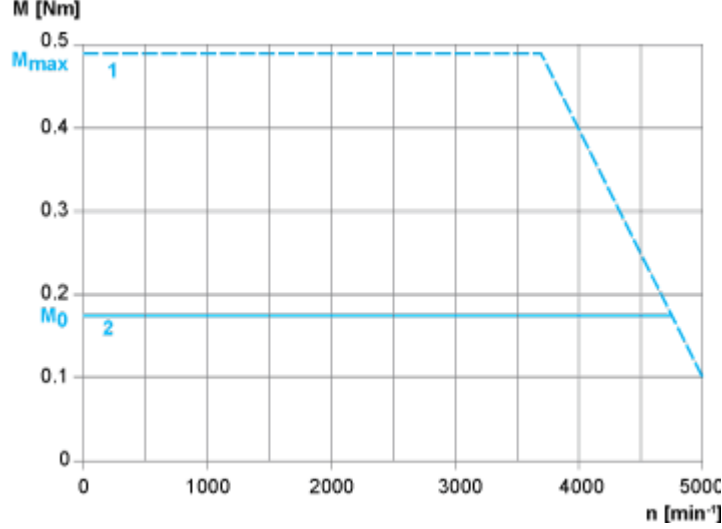


	mm	in.
L (without holding brake)	100	3.94
L (with holding brake)	130	5.12
Z	61.5	2.42

Performance Curves

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

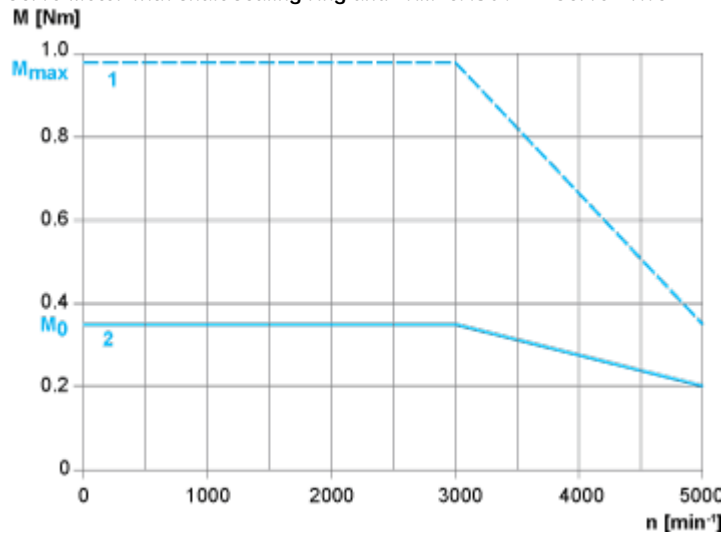
Servo Motor without shaft sealing ring and LXM28AU01 Servo Drive



- 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