# BCH2MB0132CA5C

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





#### Main

Range compatibility	Lexium 28
Device short name	BCH2
Product or component type	Servo motor

Complementary

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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
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

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

#### Environment

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient air temperature for operation	-2040 °C

## Packing Units

3	
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

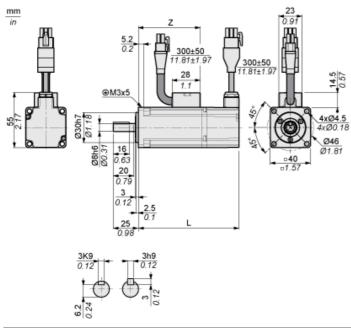
## Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	China RoHS Declaration	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	☐ End Of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
PVC free	Yes	

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#### **Dimensions**

#### **Dimensions of Motor**

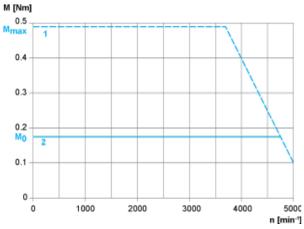


	mm	in.
L (without holding brake)	100	3.94
L (with holding brake)	130	5.12
Z	61.5	2.42

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

Servo Motor without shaft sealing ring and LXM28AU01●●● Servo Drive

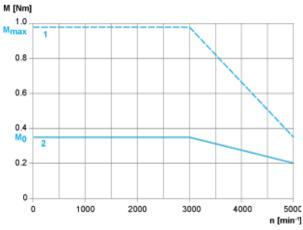


1: Peak torque

2: Continuous torque

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