# **Product datasheet**

Specifications





() Discontinued

# servo motor BCH - 130mm -1000W - no oil seal - w key straight con

BCH2MM1021CA6C

() Discontinued on: 18 Apr 2024

() To be end-of-service on: 18 Apr 2026

### Main

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

### Complementary

Complementary	
Maximum mechanical speed	3000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Three phase Single phase
Continuous stall current	5.77 A
Continuous stall torque	4.77 N.m for LXM28 at 7 A, 220 V, single phase 4.77 N.m for LXM28 at 7 A, 220 V, three phase
Continuous power	1000 W
Peak stall torque	14.3 N.m for LXM28 at 7 A, 220 V, single phase 14.3 N.m for LXM28 at 7 A, 220 V, three phase
Nominal output power	1000 W for LXM28 at 7 A, 220 V, single phase 1000 W for LXM28 at 7 A, 220 V, three phase
Nominal torque	4.77 N.m for LXM28 at 7 A, 220 V, single phase 4.77 N.m for LXM28 at 7 A, 220 V, three phase
Nominal speed	2000 rpm for LXM28 at 7 A, 220 V, single phase 2000 rpm for LXM28 at 7 A, 220 V, three phase
Maximum current Irms	19.64 A for LXM28 at 1 kW, 220 V
Maximum permanent current	6.29 A
Product compatibility	LXM28 servo drive motor at 1 kW, 220 V, single phase LXM28 servo drive motor at 1 kW, 220 V, three phase
Shaft end	Keyed
Shaft diameter	22 mm
Shaft length	55 mm
Key width	8 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	Without
mounting support	Asian standard flange
Motor flange size	130 mm

Electrical connection	Connector MIL
Torque constant	0.83 N.m/A at 20 °C
Back emf constant	50 V/krpm at 20 °C
Rotor inertia	6.63 kg.cm <sup>2</sup>
Stator resistance	0.62 Ohm at 20 °C
Stator inductance	7.4 mH at 20 °C
Stator electrical time constant	11.94 ms at 20 °C
Maximum radial force Fr	670 N at 2000 rpm
Maximum axial force Fa	200 N
Brake pull-in power	19.7 W
Type of cooling	Natural convection
Length	147 mm
Number of motor stacks	1
Centring collar diameter	110 mm
Centring collar depth	8 mm
Number of mounting holes	4
Number of mounting holes Mounting holes diameter	4 9.2 mm
	·
Mounting holes diameter Circle diameter of the mounting	9.2 mm

### Environment

IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient air temperature for operation	-2040 °C

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	18.1 cm
Package 1 Width	23.0 cm
Package 1 Length	36.0 cm
Package 1 Weight	8.07 kg

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance

Reach Free Of Svhc
Mercury Free
Rohs Exemption Information Yes

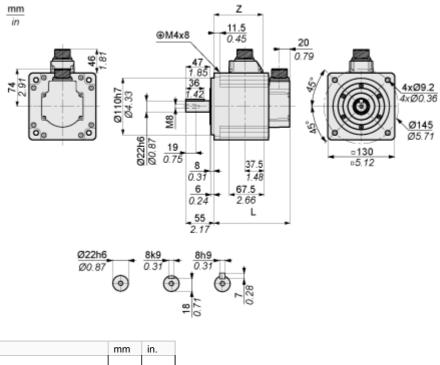
### **Certifications & Standards**

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Circularity Profile	End of Life Information	

### **Dimensions Drawings**

#### Dimensions

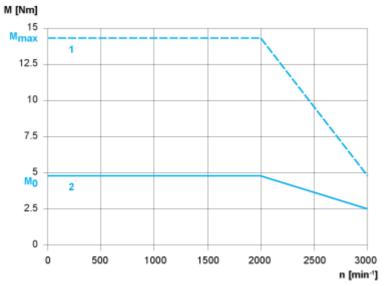
#### **Dimensions of Motor**



	mm	in.
L (without holding brake)	147	5.79
L (with holding brake)	183	7.2
Z	94.5	3.72

### Performance Curves

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



Servo Motor with LXM28AU10 ••• Servo Drive

- 1: Peak torque
- 2: Continuous torque