# **Product datasheet**

Specifications





① Discontinued

## servo motor BCH - 100mm -1000W - no oil seal - smooth brake - straight con

BCH2LH1030CF6C

() 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	5000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Three phase Single phase
Continuous stall current	5.83 A
Continuous stall torque	3.18 N.m for LXM28 at 7 A, 220 V, single phase 3.18 N.m for LXM28 at 7 A, 220 V, three phase
Continuous power	1000 W
Peak stall torque	9.54 N.m for LXM28 at 7 A, 220 V, single phase 9.54 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	3.18 N.m for LXM28 at 7 A, 220 V, single phase 3.18 N.m for LXM28 at 7 A, 220 V, three phase
Nominal speed	3000 rpm for LXM28 at 7 A, 220 V, single phase 3000 rpm for LXM28 at 7 A, 220 V, three phase
Maximum current Irms	18.9 A for LXM28 at 1 kW, 220 V
Maximum permanent current	6.64 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	Smooth shaft
Shaft diameter	22 mm
Shaft length	45 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	With
Holding torque	6.5 N.m built-in
mounting support	Asian standard flange
Motor flange size	100 mm

Electrical connection	Connector MIL
Torque constant	0.55 N.m/A at 20 °C
Back emf constant	33 V/krpm at 20 °C
Rotor inertia	2.45 kg.cm <sup>2</sup>
Stator resistance	0.67 Ohm at 20 °C
Stator inductance	4.2 mH at 20 °C
Stator electrical time constant	6.27 ms at 20 °C
Maximum radial force Fr	570 N at 3000 rpm
Maximum axial force Fa	200 N
Brake pull-in power	10.4 W
Type of cooling	Natural convection
Length	180.5 mm
Length  Number of motor stacks	180.5 mm
Number of motor stacks	1
Number of motor stacks Centring collar diameter	1 95 mm
Number of motor stacks Centring collar diameter Centring collar depth	1 95 mm 7 mm
Number of motor stacks Centring collar diameter Centring collar depth Number of mounting holes	1 95 mm 7 mm 4
Number of motor stacks         Centring collar diameter         Centring collar depth         Number of mounting holes         Mounting holes diameter         Circle diameter of the mounting	1 95 mm 7 mm 4 9.2 mm

### Environment

IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient air temperature for operation	040 °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	7.23 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.

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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
Pvc Free

### **Certifications & Standards**

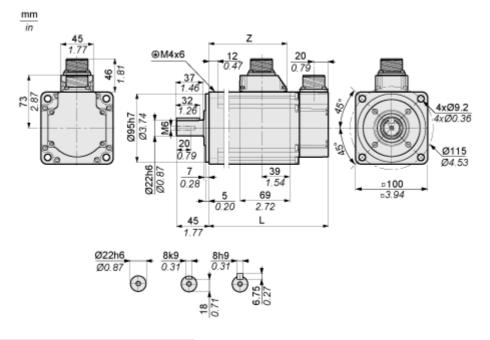
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish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

## Product datasheet

### **Dimensions Drawings**

#### Dimensions

#### **Dimensions of Motor**

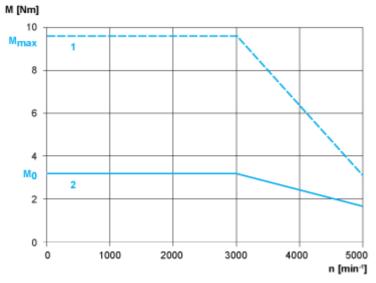


	mm	in.
L (without holding brake)	153.5	6.04
L (with holding brake)	180.5	7.11
Z	96	3.78

## BCH2LH1030CF6C

### **Performance Curves**

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



Servo Motor with LXM28AU10 ••• Servo Drive

- Peak torque 1:
- 2: Continuous torque