# **Product datasheet**





## servo motor BCH, Lexium 28, 100mm, 2000W, without oil seal, smooth, brake, straight connection

BCH2LH2030CF6C

Discontinued on: 1 Nov 2020

! Discontinued

### Main

Range compatibility	Lexium 28
Device short name	BCH2
Product or component type	Serve meter

## Complementary

Maximum mechanical speed	5000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Three phase
Continuous stall current	9.87 A
Continuous stall torque	6.37 N.m for LXM28 at 12 A, 220 V, three phase
Continuous power	2000 W
Peak stall torque	19.11 N.m for LXM28 at 12 A, 220 V, three phase
Nominal output power	2000 W for LXM28 at 12 A, 220 V, three phase
Nominal torque	6.37 N.m for LXM28 at 12 A, 220 V, three phase
Nominal speed	3000 rpm for LXM28 at 12 A, 220 V, three phase
Maximum current Irms	32.3 A for LXM28 at 2 kW, 220 V
Maximum permanent current	10.27 A
Product compatibility	LXM28 servo drive motor at 2 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	0.65 N.m/A at 20 °C
Back emf constant	39 V/krpm at 20 °C
Rotor inertia	4.35 kg.cm²

Stator resistance	0.36 Ohm at 20 °C
Stator inductance	2.59 mH at 20 °C
Stator electrical time constant	7.19 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	225.5 mm
Number of motor stacks	2
Centring collar diameter	95 mm
Centring collar depth	7 mm
Number of mounting holes	4
Mounting holes diameter	9.2 mm
Circle diameter of the mounting holes	115 mm
Distance shaft shoulder-flange	7 mm
Net weight	7.2 kg

## **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	9.23 kg



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Transparency RoHS/REACh

## Well-being performance

	Reach Free Of Svhc	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes

### **Certifications & Standards**

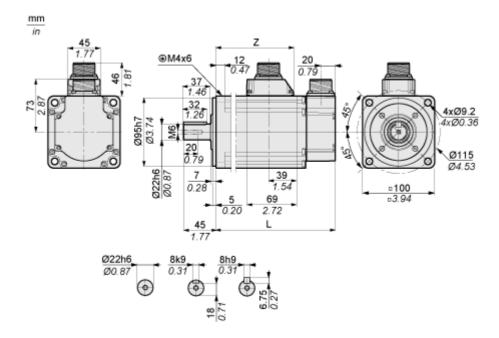
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish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

## BCH2LH2030CF6C

### **Dimensions Drawings**

#### **Dimensions**

#### **Dimensions of Motor**



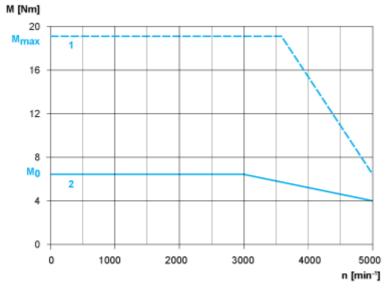
	mm	in.
L (without holding brake)	198.5	7.81
L (with holding brake)	225.5	8.88
Z	141	5.55

## BCH2LH2030CF6C

#### Performance Curves

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

## Servo Motor with LXM28AU20●●● Servo Drive



1: Peak torque

19 Aug 2024

2: Continuous torque