# **Product datasheet**

Specification





servo motor BCH, Lexium 28, 130mm, 1500W, 9.7kg.cm², without oil seal, with key, straight connection

BCH2MM1521CA6C

Discontinued

- ! Discontinued on: 16 Jul 2020
- ! End-of-service on: 28 Jul 2023

## Main

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

# Complementary

Maximum mechanical speed	3000 rpm	
[Us] rated supply voltage	220 V	
Network number of phases	Three phase Single phase	
Continuous stall current	6.18 A	
Continuous stall torque	7.16 N.m for LXM28 at 7 A, 220 V, single phase 7.16 N.m for LXM28 at 7 A, 220 V, three phase	
Continuous power	1500 W	
Peak stall torque	21.48 N.m for LXM28 at 7 A, 220 V, single phase 21.48 N.m for LXM28 at 7 A, 220 V, three phase	
Nominal output power	1500 W for LXM28 at 7 A, 220 V, single phase 1500 W for LXM28 at 7 A, 220 V, three phase	
Nominal torque	7.16 N.m for LXM28 at 7 A, 220 V, single phase 7.16 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	20.31 A for LXM28 at 1.5 kW, 220 V	
Maximum permanent current	6.74 A	
Product compatibility	LXM28 servo drive motor at 1.5 kW, 220 V, single phase LXM28 servo drive motor at 1.5 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	1.16 N.m/A at 20 °C
Back emf constant	70 V/krpm at 20 °C
Rotor inertia	9.7 kg.cm²
Stator resistance	0.64 Ohm at 20 °C
Stator inductance	6.4 mH at 20 °C
Stator electrical time constant	10 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	167 mm
Number of motor stacks	3
Centring collar diameter	110 mm
Centring collar depth	8 mm
Number of mounting holes	4
Mounting holes diameter	9.2 mm
Circle diameter of the mounting holes	145 mm
Distance shaft shoulder-flange	8 mm
Net weight	7.6 kg

## **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 cm
Package 1 Length	36 cm
Package 1 Weight	8550 g



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## Well-being performance

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

## **Certifications & Standards**

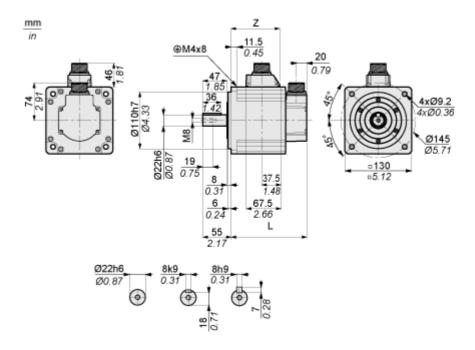
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish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

## **BCH2MM1521CA6C**

## **Dimensions Drawings**

## **Dimensions**

#### **Dimensions of Motor**

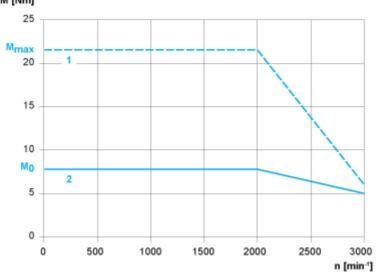


	mm	in.
L (without holding brake)	167	6.57
L (with holding brake)	202	7.95
Z	114.5	4.51

#### Performance Curves

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

# Servo Motor with LXM28AU15●●● Servo Drive M [Nm]



- 1: Peak torque
- 2: Continuous torque