# **Product datasheet**

Specification





servo motor BCH, Lexium 28, 130mm, 500W, 6.63kg.cm², without oil seal, smooth, straight connection

BCH2MM0520CA6C

① Discontinued

- ! Discontinued on: Aug 27, 2020
- ! End-of-service on: Jul 28, 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
	110 V
Network number of phases	Single phase
	Three phase
Continuous stall current	2.89 A
Continuous stall torque	2.39 N.m for LXM28 at 4.5 A, 220 V, single phase
•	2.39 N.m for LXM28 at 4.5 A, 220 V, three phase
	2.39 N.m for LXM28 at 9 A, 110 V, single phase
Continuous power	500 W
Peak stall torque	7.16 N.m for LXM28 at 4.5 A, 220 V, single phase
	7.16 N.m for LXM28 at 4.5 A, 220 V, three phase
	7.16 N.m for LXM28 at 9 A, 110 V, single phase
Nominal output power	500 W for LXM28 at 4.5 A, 220 V, single phase
Trommar daspat potro.	500 W for LXM28 at 4.5 A, 220 V, single phase
	500 W for LXM28 at 9 A, 110 V, single phase
Nominal torque	2.39 N.m for LXM28 at 4.5 A, 220 V, single phase
	2.39 N.m for LXM28 at 4.5 A, 220 V, three phase
	2.39 N.m for LXM28 at 9 A, 110 V, single phase
Nominal speed	2000 rpm for LXM28 at 4.5 A, 220 V, single phase
•	2000 rpm for LXM28 at 4.5 A, 220 V, three phase
	2000 rpm for LXM28 at 9 A, 110 V, single phase
Maximum current Irms	9.18 A for LXM28 at 0.5 kW, 220 V
	9.18 A for LXM28 at 0.5 kW, 110 V
Maximum permanent current	3.24 A
Product compatibility	LXM28 servo drive motor at 0.5 kW, 220 V, single phase
	LXM28 servo drive motor at 0.5 kW, 220 V, three phase
	LXM28 servo drive motor at 0.5 kW, 110 V, single phase
Shaft end	Smooth shaft
Shaft diameter	22 mm
Shaft length	45 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.cm²
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
Mounting holes diameter	9.2 mm
Circle diameter of the mounting holes	145 mm
Distance shaft shoulder-flange	8 mm
Net weight	7 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	23.0 cm
Package 1 Length	36.0 cm
Package 1 Weight	7.91 kg



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Transparency RoHS/REACh

### Well-being performance

	Reach Free Of Svhc	
<b>⊘</b>	Mercury Free	
<b>②</b>	Rohs Exemption Information	Yes

#### **Certifications & Standards**

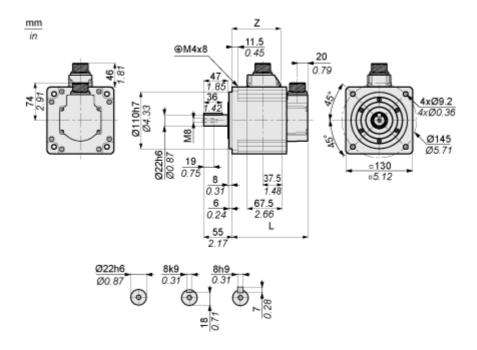
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish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

## BCH2MM0520CA6C

#### **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

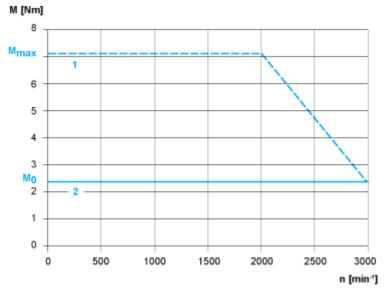
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### BCH2MM0520CA6C

#### Performance Curves

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

## Servo Motor with LXM28AU04●●● Servo Drive



1: Peak torque

2: Continuous torque