# **Product data sheet**





# servo motor BCH, Lexium 28, 180mm, 3000W, without oil seal, smooth, straight connection

BCH2MR3010CA6C

! Discontinued on: Jun 30, 2023

! Discontinued

#### 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
Continuous stall current	16.49 A
Continuous stall torque	169.05 lbf.in (19.1 N.m) LXM28 19.8 A, 220 V, three phase
Continuous power	3000 W
Peak stall torque	507.06 lbf.in (57.29 N.m) LXM28 19.8 A, 220 V, three phase
Nominal output power	3000 W LXM28 19.8 A, 220 V, three phase
Nominal torque	169.05 lbf.in (19.1 N.m) LXM28 19.8 A, 220 V, three phase
Nominal speed	1500 rpm LXM28 19.8 A, 220 V, three phase
Maximum current Irms	58.4 A LXM28 3 kW, 220 V
Maximum permanent current	18.8 A
Product compatibility	LXM28 servo drive 3 kW, 220 V, three phase
Shaft end	Smooth shaft
Shaft diameter	1.4 in (35 mm)
Shaft length	3.1 in (79 mm)
Feedback type	20 bits single turn absolute encoder
Holding brake	Without
mounting support	Asian standard flange
Motor flange size	7.09 in (180 mm)
Electrical connection	Connector MIL
Torque constant	1.16 N.m/A 68 °F (20 °C)
Back emf constant	70 V/krpm 68 °F (20 °C)
Rotor inertia	53.56 kg.cm²
Stator resistance	0.234 Ohm 68 °F (20 °C)

Stator inductance	4.9 mH 68 °F (20 °C)
Stator electrical time constant	20.94 ms 68 °F (20 °C)
Maximum radial force Fr	1200 N 1500 rpm
Maximum axial force Fa	497 N
Brake pull-in power	49.6 W
Type of cooling	Natural convection
Length	8.0 in (202 mm)
Number of motor stacks	2
Centring collar diameter	4.5 in (114.3 mm)
Centring collar depth	0.2 in (4 mm)
Number of mounting holes	4
Mounting holes diameter	0.5 in (13.5 mm)
Circle diameter of the mounting holes	7.9 in (200 mm)
Distance shaft shoulder-flange	0.2 in (4 mm)
net weight	40.8 lb(US) (18.5 kg)

## **Environment**

IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient air temperature for operation	-4104 °F (-2040 °C)

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.6 in (24.5 cm)
Package 1 Width	11.4 in (29.0 cm)
Package 1 Length	23.03 in (58.5 cm)
Package 1 Weight	44.49 lb(US) (20.18 kg)



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### Well-being performance

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

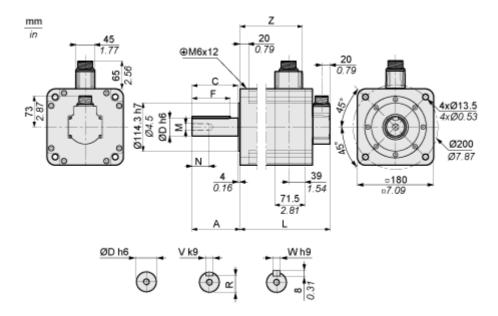
#### **Certifications & Standards**

Reach Regulation	Pro-active compliance (Product out of EU RoHS legal scope)	
Eu Rohs Directive		
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)	202	7.95
L (with holding brake)	235	9.25
A	79	3.11
С	73	2.87
D	35	1.38
F	63	2.48
N	28	1.10
М	M12	
R	30	1.18
V	10	0.39
W	10	0.39
Z	136	5.35

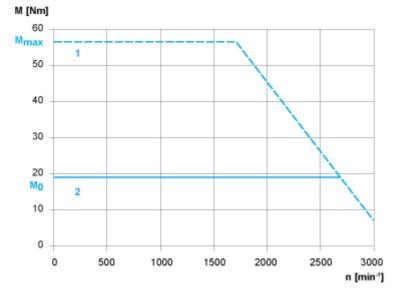
## Product data sheet

### BCH2MR3010CA6C

#### Performance Curves

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

### Servo Motor with LXM28AU30●●● Servo Drive



1: Peak torque

2: Continuous torque