

# Product datasheet

Specifications



servo motor BCH, Lexium 28,  
180mm, 3000W, without oil seal,  
with key, straight connection

BCH2MR3011CA6C

! Discontinued on: Aug 27, 2020

! 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	19.1 N.m for LXM28... at 19.8 A, 220 V, three phase
Continuous power	3000 W
Peak stall torque	57.29 N.m for LXM28... at 19.8 A, 220 V, three phase
Nominal output power	3000 W for LXM28... at 19.8 A, 220 V, three phase
Nominal torque	19.1 N.m for LXM28... at 19.8 A, 220 V, three phase
Nominal speed	1500 rpm for LXM28... at 19.8 A, 220 V, three phase
Maximum current Irms	58.4 A for LXM28... at 3 kW, 220 V
Maximum permanent current	18.8 A
Product compatibility	LXM28... servo drive motor at 3 kW, 220 V, three phase
Shaft end	Keyed
Shaft diameter	35 mm
Shaft length	79 mm
Key width	10 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	Without
mounting support	Asian standard flange
Motor flange size	180 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	53.56 kg.cm <sup>2</sup>

<b>Stator resistance</b>	0.234 Ohm at 20 °C
<b>Stator inductance</b>	4.9 mH at 20 °C
<b>Stator electrical time constant</b>	20.94 ms at 20 °C
<b>Maximum radial force Fr</b>	1200 N at 1500 rpm
<b>Maximum axial force Fa</b>	497 N
<b>Brake pull-in power</b>	49.6 W
<b>Type of cooling</b>	Natural convection
<b>Length</b>	202 mm
<b>Number of motor stacks</b>	2
<b>Centring collar diameter</b>	114.3 mm
<b>Centring collar depth</b>	4 mm
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	13.5 mm
<b>Circle diameter of the mounting holes</b>	200 mm
<b>Distance shaft shoulder-flange</b>	4 mm
<b>Net weight</b>	18.5 kg

## Environment

<b>IP degree of protection</b>	IP54 IM B5, IM V1 IP50 IM V3
<b>Ambient air temperature for operation</b>	-20...40 °C

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	24.5 cm
<b>Package 1 Width</b>	29.0 cm
<b>Package 1 Length</b>	58.5 cm
<b>Package 1 Weight</b>	20.18 kg

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class 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.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Reach Free Of Svhc

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Mercury Free

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Rohs Exemption Information [Yes](#)

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Pvc Free

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## Certifications & Standards

**Eu Rohs Directive** [Pro-active compliance \(Product out of EU RoHS legal scope\)](#)

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**China Rohs Regulation** [China RoHS declaration](#)

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**Environmental Disclosure** [Product Environmental Profile](#)

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**Weee** [The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins](#)

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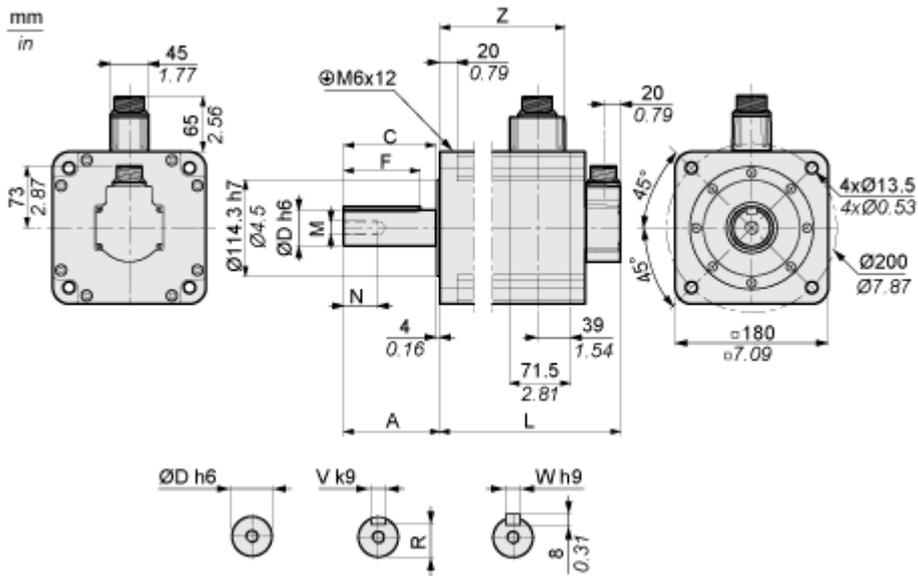
**Circularity Profile** [End of Life Information](#)

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Dimensions Drawings

Dimensions

Dimensions of Motor



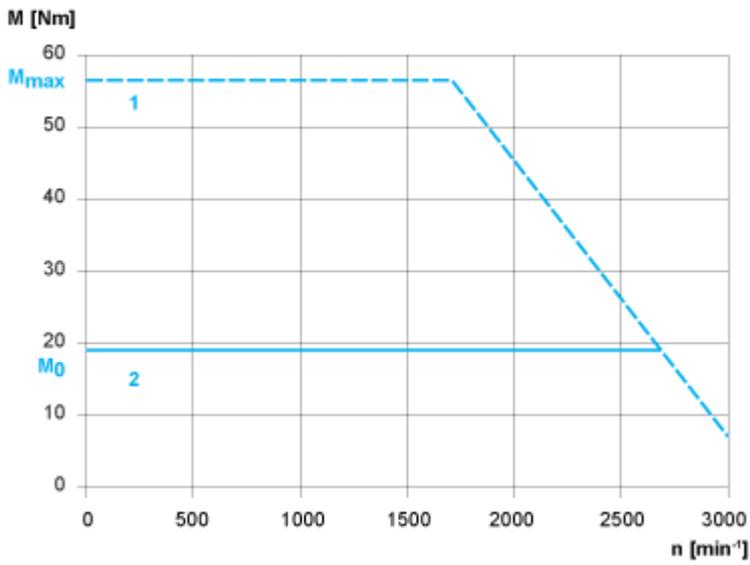
	mm	in.
L (without holding brake)	202	7.95
L (with holding brake)	235	9.25
A	79	3.11
C	73	2.87
D	35	1.38
F	63	2.48
N	28	1.10
M	M12	
R	30	1.18
V	10	0.39
W	10	0.39
Z	136	5.35

Performance Curves

Torque/Speed Curves with 230 V Three Phase Supply Voltage

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Servo Motor with LXM28AU30••• Servo Drive



- 1 : Peak torque
- 2 : Continuous torque