# Product data sheet

Specifications



#### () Discontinued

## servo motor BCH, Lexium 28, 180mm, 3500W, without oil seal, with key, brake, straight connection

BCH2MR3521CF6C

Discontinued on: Jun 30, 2023

#### Main

Range Compatibility	Lexium 28
Product Or Component Type	Servo motor
Device Short Name	BCH2

## Complementary

3000 rpm
220 V
Three phase
16.55 A
16.7 N.m for LXM28 at 22.9 A, 220 V, three phase
3500 W
50.3 N.m for LXM28 at 22.9 A, 220 V, three phase
3500 W for LXM28 at 22.9 A, 220 V, three phase
16.7 N.m for LXM28 at 22.9 A, 220 V, three phase
2000 rpm for LXM28 at 22.9 A, 220 V, three phase
57.8 A for LXM28 at 3.5 kW, 220 V
19 A
LXM28 servo drive motor at 3.5 kW, 220 V, three phase
Keyed
35 mm
79 mm
10 mm
20 bits single turn absolute encoder
With
48 N.m built-in
Asian standard flange
180 mm
Connector MIL
1.01 N.m/A at 20 °C
61 V/krpm at 20 °C

Rotor Inertia	54.1 kg.cm <sup>2</sup>
Stator Resistance	0.157 Ohm at 20 °C
Stator Inductance	2.93 mH at 20 °C
Stator Electrical Time Constant	18.66 ms at 20 °C
Maximum Radial Force Fr	1200 N at 2000 rpm
Maximum Axial Force Fa	497 N
Brake Pull-In Power	49.6 W
Type Of Cooling	Natural convection
Length	235 mm
Number Of Motor Stacks	2
Centring Collar Diameter	114.3 mm
Centring Collar Depth	4 mm
Number Of Mounting Holes	4
Mounting Holes Diameter	13.5 mm
Circle Diameter Of The Mounting Holes	200 mm
Distance Shaft Shoulder-Flange	4 mm
Net Weight	23 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	24.5 cm
Package 1 Width	29.0 cm
Package 1 Length	58.5 cm
Package 1 Weight	24.63 kg

#### Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass 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 >

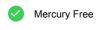


Eq

Transparency RoHS/REACh

#### Well-being performance

Reach Free Of Svhc



Rohs Exemption Information Yes

#### **Certifications & Standards**

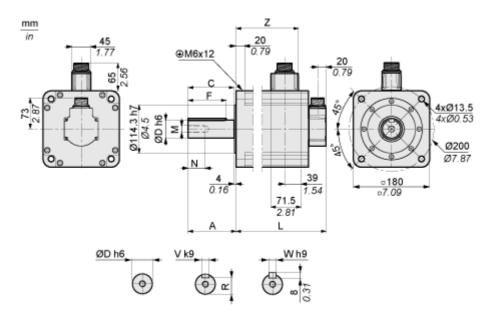
Reach Regulation	REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope)		
Eu Rohs Directive			
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		
Circularity Profile	End of Life Information		
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov		

## Product data sheet

#### **Dimensions Drawings**

#### Dimensions

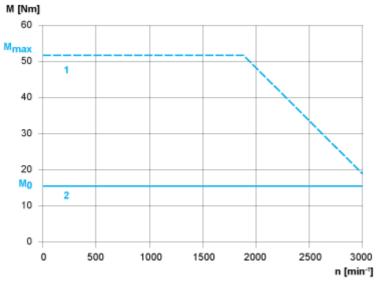
#### **Dimensions of Motor**



	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

Performance Curves

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



Servo Motor with LXM28AU45 ••• Servo Drive

1: Peak torque

2: Continuous torque