# Product data sheet

Specifications





() Discontinued

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

BCH2MR3521CA6C

(Discontinued on: Jun 30, 2023

Product availability: Non-Stock - Not normally stocked in distribution facility

### Main

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

### Complementary

compromontary	
Maximum Mechanical Speed	3000 rpm
[Us] Rated Supply Voltage	220 V
Phase	Three phase
Continuous Stall Current	16.55 A
Continuous Stall Torque	147.81 lbf.in (16.7 N.m) LXM28 22.9 A, 220 V, three phase
Continuous Power	3500 W
Peak Stall Torque	445.19 lbf.in (50.3 N.m) LXM28 22.9 A, 220 V, three phase
Nominal Output Power	3500 W LXM28 22.9 A, 220 V, three phase
Nominal Torque	147.81 lbf.in (16.7 N.m) LXM28 22.9 A, 220 V, three phase
Nominal Speed	2000 rpm LXM28 22.9 A, 220 V, three phase
Maximum Current Irms	57.8 A LXM28 3.5 kW, 220 V
Maximum Permanent Current	19 A
Product Compatibility	LXM28 servo drive 3.5 kW, 220 V, three phase
Shaft End	Keyed
Shaft Diameter	1.38 in (35 mm)
Shaft Length	3.11 in (79 mm)
Key Width	0.39 in (10 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	1.01 N.m/A 68 °F (20 °C)
Back Emf Constant	61 V/krpm 68 °F (20 °C)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Rotor Inertia	53.56 kg.cm <sup>2</sup>
Stator Resistance	0.157 Ohm 68 °F (20 °C)
Stator Inductance	2.93 mH 68 °F (20 °C)
Stator Electrical Time Constant	18.66 ms 68 °F (20 °C)
Maximum Radial Force Fr	1200 N 2000 rpm
Maximum Axial Force Fa	497 N
Brake Pull-In Power	49.6 W
Type Of Cooling	Natural convection
Length	7.95 in (202 mm)
Number Of Motor Stacks	2
Centring Collar Diameter	4.50 in (114.3 mm)
Centring Collar Depth	0.16 in (4 mm)
Number Of Mounting Holes	4
Mounting Holes Diameter	0.53 in (13.5 mm)
Circle Diameter Of The Mounting Holes	7.87 in (200 mm)
Distance Shaft Shoulder-Flange	0.16 in (4 mm)
Net Weight	40.79 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)

# Ordering and shipping details

Category	US1PC5318281
Discount Schedule	PC53
Gtin	3606480734861
Returnability	No
Country Of Origin	CN

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	9.65 in (24.5 cm)
Package 1 Width	11.42 in (29.0 cm)
Package 1 Length	23.03 in (58.5 cm)
Package 1 Weight	44.49 lb(US) (20.18 kg)

# Sustainability Screen Premium

**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 >



Transparency RoHS/REACh

## Well-being performance

Reach Free Of Svhc
Mercury Free
Rohs Exemption Information Yes

#### **Certifications & Standards**

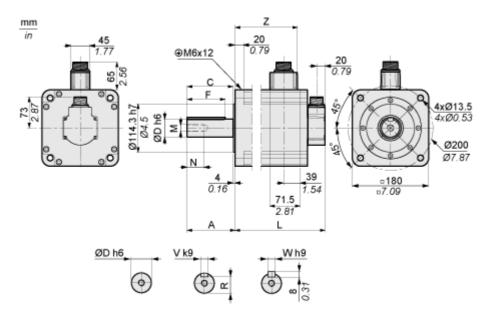
Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific waste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

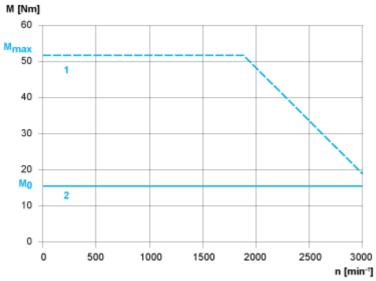
#### **Dimensions of Motor**



	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