# **Product data sheet**

Specification





servo motor BCH, Lexium 28, 180mm, 2000W, 27kg.cm², with oil seal, with key, brake, straight connection

BCH2MR2023CF6C

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

Price\*: 2,106.28 USD

#### 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
Phase	Three phase
Continuous stall current	8.75 A
Continuous stall torque	84.52 lbf.in (9.55 N.m) LXM26D 12 A, 220 V, three phase 84.52 lbf.in (9.55 N.m) LXM28 12 A, 220 V, three phase 84.52 lbf.in (9.55 N.m)
Continuous power	2000 W
Peak stall torque	253.57 lbf.in (28.65 N.m) LXM26D 12 A, 220 V, three phase 253.57 lbf.in (28.65 N.m) LXM28 12 A, 220 V, three phase 253.57 lbf.in (28.65 N.m)
Nominal output power	2000 W LXM26D 12 A, 220 V, three phase 2000 W LXM28 12 A, 220 V, three phase 2000 W
Nominal torque	84.52 lbf.in (9.55 N.m) LXM26D 12 A, 220 V, three phase 84.52 lbf.in (9.55 N.m) LXM28 12 A, 220 V, three phase 84.52 lbf.in (9.55 N.m)
Nominal speed	2000 rpm 2000 rpm LXM26D 12 A, 220 V, three phase 2000 rpm LXM28 12 A, 220 V, three phase
Maximum current Irms	35.4 A 2 kW, 220 V 35.4 A LXM28 2 kW, 220 V
Maximum permanent current	9.6 A
Product compatibility	LXM26D servo drive 2 kW, 220 V, three phase LXM28 servo drive 2 kW, 220 V, three phase
Shaft end	Keyed
Shaft diameter	1.4 in (35 mm)
Shaft length	3.1 in (79 mm)
Key width	0.4 in (10 mm)
Feedback type	20 bits single turn absolute encoder

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

Holding brake	With
Holding torque	424.8 lbf.in (48 N.m) built-in
Mounting Support	Asian standard flange
Motor flange size	7.09 in (180 mm)
Electrical connection	Connector MIL
Torque constant	1.09 N.m/A 68 °F (20 °C)
Back emf constant	66 V/krpm 68 °F (20 °C)
Rotor inertia	27 kg.cm²
Stator resistance	0.572 Ohm 68 °F (20 °C)
Stator inductance	8.86 mH 68 °F (20 °C)
Stator electrical time constant	15.49 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	8.0 in (203 mm)
Number of motor stacks	1
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	39.7 lb(US) (18 kg)

### **Environment**

IP Degree of Protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient Air Temperature for Operation	32104 °F (040 °C)

# Ordering and shipping details

Category	US1PC5318281	
Discount Schedule	PC53	
GTIN	3606480734755	
Returnability	No	
Country of origin	CN	

## Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	9.6 in (24.5 cm)	
Package 1 Width	11.4 in (29 cm)	

Package 1 Length	23.03 in (58.5 cm)	
Package 1 Weight	692.4 oz (19630 g)	
Unit Type of Package 2	P06	
Number of Units in Package 2	4	
Package 2 Height	19.7 in (50 cm)	
Package 2 Width	31.5 in (80 cm)	
Package 2 Length	23.6 in (60 cm)	
Package 2 Weight	200.0 lb(US) (90.7 kg)	

## Sustainability Green 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

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

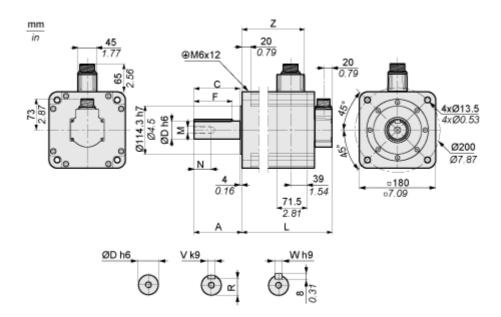
#### **Certifications & Standards**

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		

#### **Dimensions Drawings**

#### **Dimensions**

#### **Dimensions of Motor**



	mm	in.
L (without holding brake)	169	6.65
L (with holding brake)	203	7.99
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	103	4.06

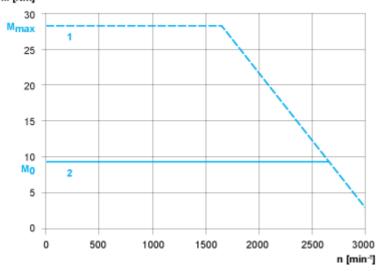
### BCH2MR2023CF6C

#### Performance Curves

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

#### Servo Motor with LXM28AU20●●● Servo Drive

M [Nm]



1: Peak torque

2: Continuous torque