# **Product datasheet**

Specifications





# servo motor BCH, Lexium 28, 180mm, 3500W, 53.56kg.cm<sup>2</sup>, with oil seal, smooth, straight connection

BCH2MR3522CA6C

(!) Discontinued

Discontinued on: Aug 27, 2020

### Main

Range compatibility	Lexium 28
Device short name	BCH2
Product or component type	Servo motor

### Complementary

Complementally	
Maximum mechanical speed	3000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Three phase
Continuous stall current	16.55 A
Continuous stall torque	16.7 N.m for LXM28 at 22.9 A, 220 V, three phase
Continuous power	3500 W
Peak stall torque	50.3 N.m for LXM28 at 22.9 A, 220 V, three phase
Nominal output power	3500 W for LXM28 at 22.9 A, 220 V, three phase
Nominal torque	16.7 N.m for LXM28 at 22.9 A, 220 V, three phase
Nominal speed	2000 rpm for LXM28 at 22.9 A, 220 V, three phase
Maximum current Irms	57.8 A for LXM28 at 3.5 kW, 220 V
Maximum permanent current	19 A
Product compatibility	LXM28 servo drive motor at 3.5 kW, 220 V, three phase
Shaft end	Smooth shaft
Shaft diameter	35 mm
Shaft length	79 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	1.01 N.m/A at 20 °C
Back emf constant	61 V/krpm at 20 °C
Rotor inertia	53.56 kg.cm²
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	202 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	18.5 kg

### Environment

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient air temperature for operation	-2040 °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	20.18 kg

## Sustainability Screen

**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.

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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**

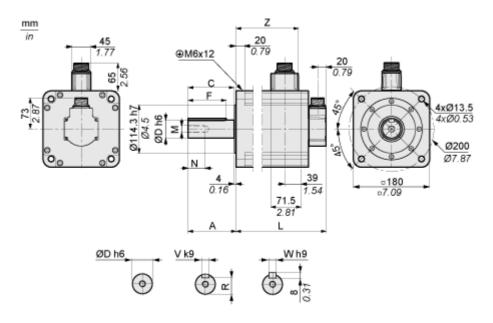
Reach Regulation	REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope)		
Eu Rohs Directive			
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific waste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

### **Product datasheet**

#### **Dimensions Drawings**

#### Dimensions

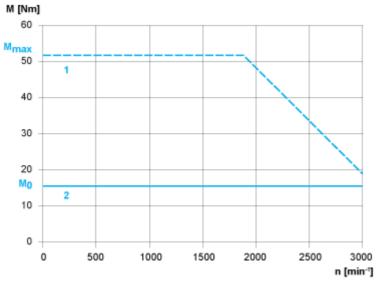
#### **Dimensions of Motor**



	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