Product data sheet

Specifications





servo motor BCH, Lexium 28, 180mm, 3500W, without oil seal, smooth, straight connection

BCH2MR3520CA6C

() Discontinued on: Jun 30, 2023

① Discontinued

Main

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

Complementary

Complementary		
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	147.8 lbf.in (16.7 N.m) LXM28 22.9 A, 220 V, three phase	
Continuous power	3500 W	
Peak stall torque	445.2 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	147.8 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	Smooth shaft	
Shaft diameter	1.4 in (35 mm)	
Shaft length	3.1 in (79 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)	
Rotor inertia	53.56 kg.cm ²	
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	8.0 in (202 mm)
Number of motor stacks	2
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	40.8 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)

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 (29.0 cm)
Package 1 Length	23.03 in (58.5 cm)
Package 1 Weight	44.49 lb(US) (20.18 kg)

Sustainability Screen

Green PremiumTM 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-CO₂ products.

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

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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

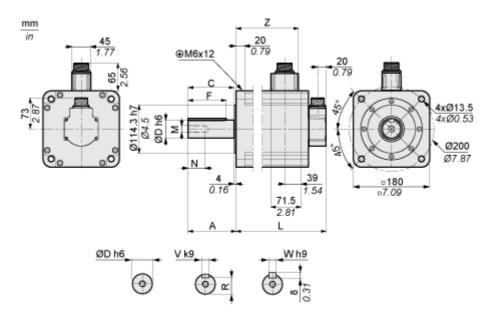
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific was collection and never end up in rubbish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

Product data sheet

Dimensions Drawings

Dimensions

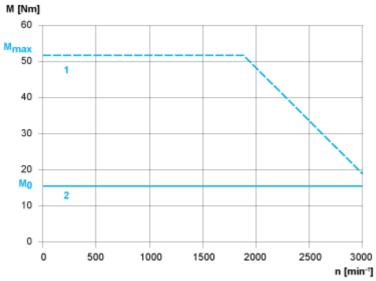
Dimensions of Motor



	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