

Product data sheet

Specifications



servo motor BCH, Lexium 28,
180mm, 2000W, 26.5kg.cm²,
without oil seal, smooth, straight
connection

BCH2MR2020CA6C

! Discontinued

! Discontinued on: Jun 30, 2023

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
Network number of phases	Three phase
Continuous stall current	8.75 A
Continuous stall torque	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) LXM28... 12 A, 220 V, three phase 253.57 lbf.in (28.65 N.m)
Nominal output power	2000 W LXM28... 12 A, 220 V, three phase 2000 W
Nominal torque	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 LXM28... 12 A, 220 V, three phase
Maximum current Irms	35.4 A 2 kW, 220 V
Maximum permanent current	9.6 A
Product compatibility	LXM28... servo drive 2 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	1.09 N.m/A 68 °F (20 °C)

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Back emf constant	66 V/krpm 68 °F (20 °C)
Rotor inertia	26.5 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	6.7 in (169 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	28.7 lb(US) (13 kg)
Sizing reference	BCH2
Network number of phases	3
Accuracy error [angular]	0.044 °
Temperature copper hot	275 °F (135 °C)
Temperature magnet hot	212 °F (100 °C)
Temperature magnet rt	68 °F (20 °C)

Environment

IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient air temperature for operation	-4...104 °F (-20...40 °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	33.47 lb(US) (15.18 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Environmental Disclosure

[Product Environmental Profile](#)

Use Better



Materials and Substances

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

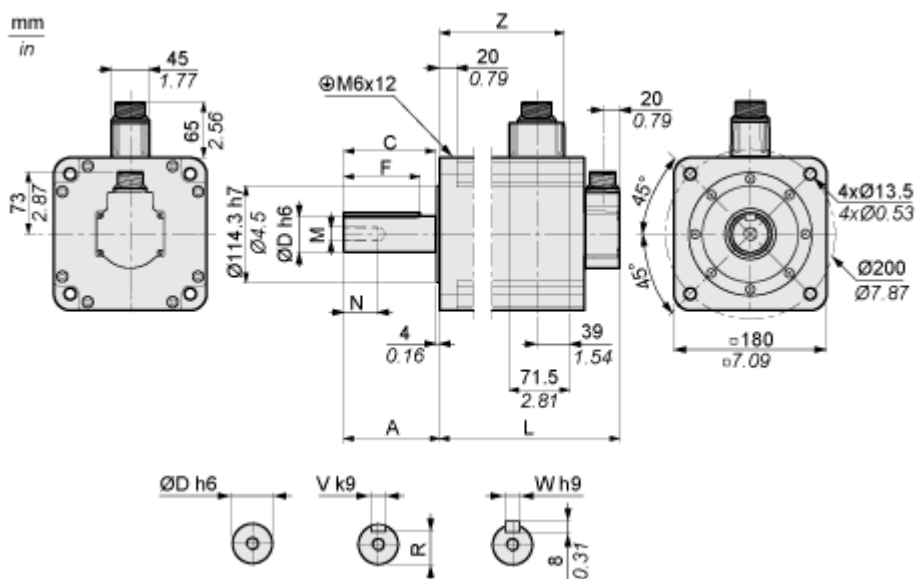
Circularity Profile

[End of Life Information](#)

Dimensions Drawings

Dimensions

Dimensions of Motor

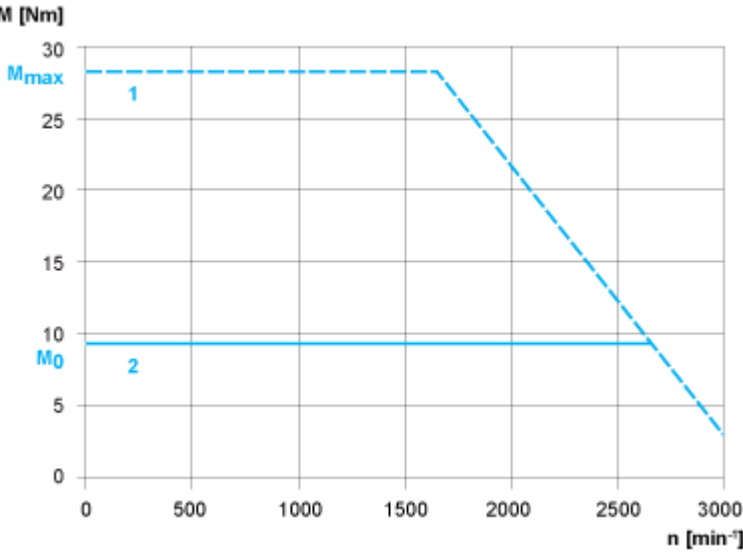


	mm	in.
L (without holding brake)	169	6.65
L (with holding brake)	203	7.99
A	79	3.11
C	73	2.87
D	35	1.38
F	63	2.48
N	28	1.10
M	M12	
R	30	1.18
V	10	0.39
W	10	0.39
Z	103	4.06

Performance Curves

Torque/Speed Curves with 230 V Three Phase Supply Voltage

Servo Motor with LXM28AU20••• Servo Drive



- 1 : Peak torque
- 2 : Continuous torque