

Product data sheet

Specifications



servo motor BCH, Lexium 28,
180mm, 2000W, 26.5kg.cm², with oil
seal, smooth, straight connection

BCH2MR2022CA6C

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

Main

Range of Product	Lexium 28
Range Compatibility	Lexium 28
Product or Component Type	Servo motor
Device short name	BCH2

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) 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)
Back emf constant	66 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.

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

Number of motor poles	5.0
Rotor inertia	26.5 kg.cm²
Stator resistance	0.572 Ohm 68 °F (20 °C)
Stator inductance	6.1 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)
Product 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)
Inertia	0.0 kg.cm² of brake 26.49 kg.cm² of motor

Environment

IP Degree of Protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient Air Temperature for Operation	-4...104 °F (-20...40 °C)

Ordering and shipping details

Category	US1PC5318281
Discount Schedule	PC53
GTIN	3606480734724
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	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 weight(Lbs)	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

Total lifecycle Carbon footprint	6 474 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	87 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	6 384 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant
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

Use Longer



Lifetime extension

Repair	No
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Use Again



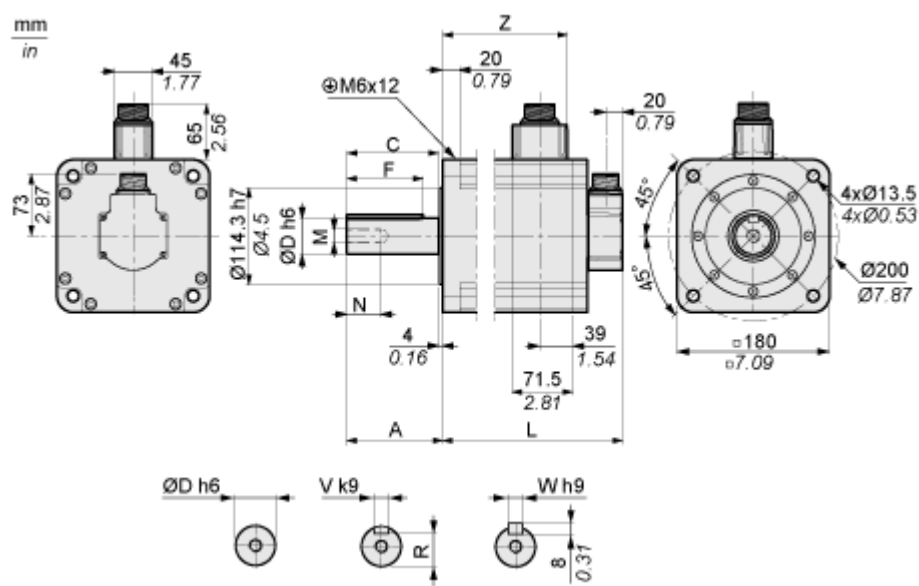
Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	No

Dimensions Drawings

Dimensions

Dimensions of Motor

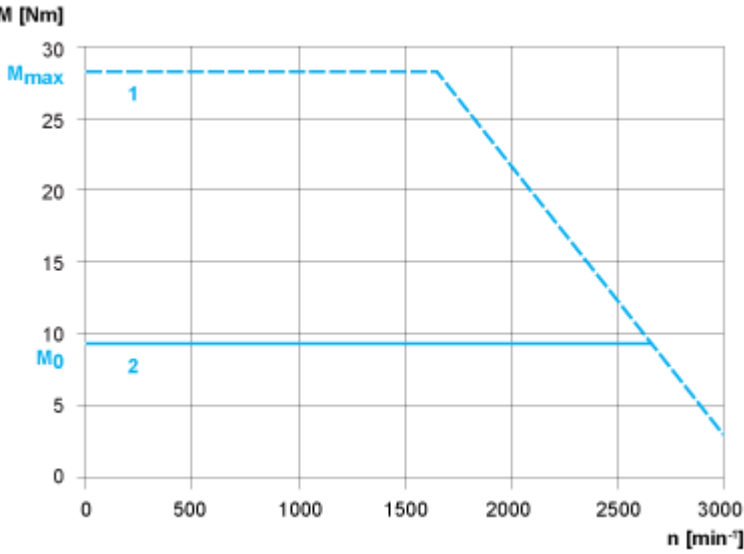


	mm	in.
L (without holding brake)	169	6.65
L (with holding brake)	203	7.99
A	79	3.11
C	73	2.87
D	35	1.38
F	63	2.48
N	28	1.10
M	M12	
R	30	1.18
V	10	0.39
W	10	0.39
Z	103	4.06

Performance Curves

Torque/Speed Curves with 230 V Three Phase Supply Voltage

Servo Motor with LXM28AU20 Servo Drive



- 1 : Peak torque
- 2 : Continuous torque