

Product data sheet

Specifications



servo motor BCH, Lexium 28,
180mm, 3000W, 53.56kg.cm², with
oil seal, with key, straight connection

BCH2MR3013CA6C

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

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	16.49 A
Continuous stall torque	169.05 lbf.in (19.1 N.m) LXM26D 19.8 A, 220 V, three phase 169.05 lbf.in (19.1 N.m) LXM28 19.8 A, 220 V, three phase
Continuous power	3000 W
Peak stall torque	507.06 lbf.in (57.29 N.m) LXM26D 19.8 A, 220 V, three phase 507.06 lbf.in (57.29 N.m) LXM28... 19.8 A, 220 V, three phase
Nominal output power	3000 W LXM26D 19.8 A, 220 V, three phase 3000 W LXM28... 19.8 A, 220 V, three phase
Nominal torque	169.05 lbf.in (19.1 N.m) LXM26D 19.8 A, 220 V, three phase 169.05 lbf.in (19.1 N.m) LXM28... 19.8 A, 220 V, three phase
Nominal speed	1500 rpm LXM26D 19.8 A, 220 V, three phase 1500 rpm LXM28... 19.8 A, 220 V, three phase
Maximum current Irms	58.4 A LXM26D 3 kW, 220 V 58.4 A LXM28... 3 kW, 220 V
Maximum permanent current	18.8 A
Product compatibility	LXM26D servo drive 3 kW, 220 V, three phase LXM28... servo drive 3 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
Holding brake	Without
Mounting Support	Asian standard flange
Motor flange size	7.09 in (180 mm)
Electrical connection	Connector MIL
Torque constant	1.16 N.m/A 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.

Back emf constant	70 V/krpm 68 °F (20 °C)
Number of motor poles	5.0
Rotor inertia	53.56 kg.cm ²
Stator resistance	0.234 Ohm 68 °F (20 °C)
Stator inductance	3.45 mH 68 °F (20 °C)
Stator electrical time constant	20.94 ms 68 °F (20 °C)
Maximum radial force Fr	1200 N 1500 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)
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	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	3606480734984
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.96 in (25.3 cm)

Package 1 Width	11.81 in (30.0 cm)
Package 1 Length	22.28 in (56.6 cm)
Package 1 Weight	47.71 lb(US) (21.64 kg)

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

Carbon footprint (kg CO2 eq, Total Life cycle) 11198

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

REACH Regulation [REACH Declaration](#)

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

PVC free Yes

Use Again

Repack and remanufacture

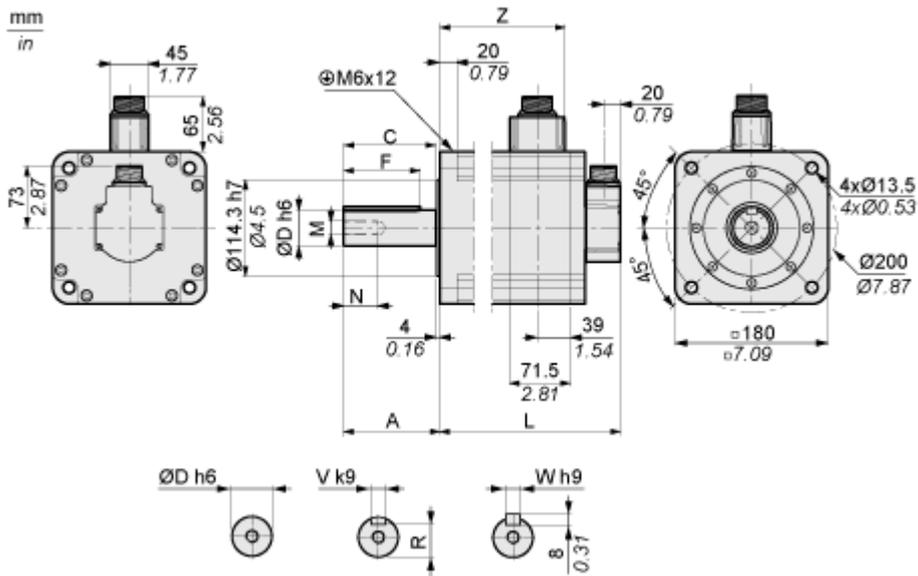
Circularity Profile [End of Life Information](#)

Take-back No

Dimensions Drawings

Dimensions

Dimensions of Motor

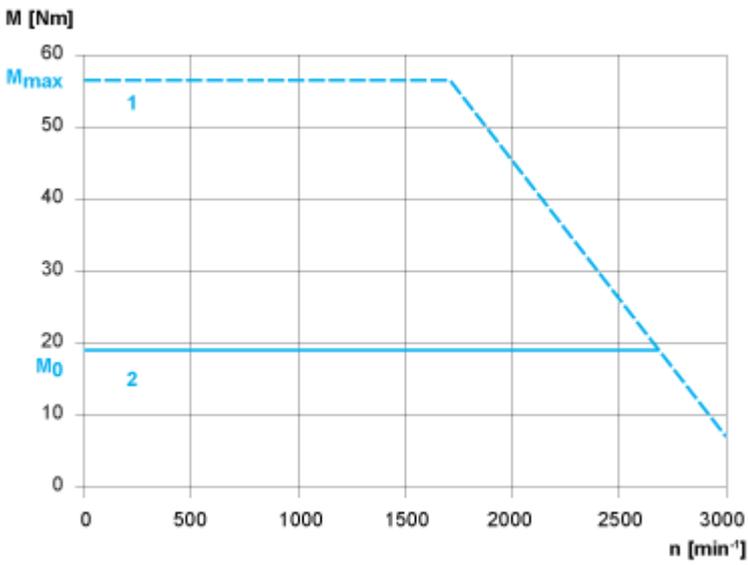


	mm	in.
L (without holding brake)	202	7.95
L (with holding brake)	235	9.25
A	79	3.11
C	73	2.87
D	35	1.38
F	63	2.48
N	28	1.10
M	M12	
R	30	1.18
V	10	0.39
W	10	0.39
Z	136	5.35

Performance Curves

Torque/Speed Curves with 230 V Three Phase Supply Voltage

Servo Motor with LXM28AU30••• Servo Drive



- 1 : Peak torque
- 2 : Continuous torque