

Product data sheet

Specifications



servo motor BCH, Lexium 28,
130mm, 500W, 6.91kg.cm², with oil
seal, with key, brake, straight
connection

BCH2MM0523CF6C

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 110 V
Phase	Three phase Single phase
Continuous stall current	2.89 A
Continuous stall torque	21.15 lbf.in (2.39 N.m) LXM26D 4.5 A, 220 V, single phase 21.15 lbf.in (2.39 N.m) LXM26D 4.5 A, 220 V, three phase 21.15 lbf.in (2.39 N.m) LXM28 4.5 A, 220 V, single phase 21.15 lbf.in (2.39 N.m) LXM28 4.5 A, 220 V, three phase 21.15 lbf.in (2.39 N.m) LXM28 9 A, 110 V, single phase
Continuous power	500 W
Peak stall torque	63.37 lbf.in (7.16 N.m) LXM26D 4.5 A, 220 V, single phase 63.37 lbf.in (7.16 N.m) LXM26D 4.5 A, 220 V, three phase 63.37 lbf.in (7.16 N.m) LXM28... 4.5 A, 220 V, single phase 63.37 lbf.in (7.16 N.m) LXM28... 4.5 A, 220 V, three phase 63.37 lbf.in (7.16 N.m) LXM28... 9 A, 110 V, single phase
Nominal output power	500 W LXM26D 4.5 A, 220 V, single phase 500 W LXM26D 4.5 A, 220 V, three phase 500 W LXM28... 4.5 A, 220 V, single phase 500 W LXM28... 4.5 A, 220 V, three phase 500 W LXM28... 9 A, 110 V, single phase
Nominal torque	21.15 lbf.in (2.39 N.m) LXM26D 4.5 A, 220 V, single phase 21.15 lbf.in (2.39 N.m) LXM26D 4.5 A, 220 V, three phase 21.15 lbf.in (2.39 N.m) LXM28... 4.5 A, 220 V, single phase 21.15 lbf.in (2.39 N.m) LXM28... 4.5 A, 220 V, three phase 21.15 lbf.in (2.39 N.m) LXM28... 9 A, 110 V, single phase
Nominal speed	2000 rpm LXM26D 4.5 A, 220 V, single phase 2000 rpm LXM26D 4.5 A, 220 V, three phase 2000 rpm LXM28... 4.5 A, 220 V, single phase 2000 rpm LXM28... 4.5 A, 220 V, three phase 2000 rpm LXM28... 9 A, 110 V, single phase
Maximum current Irms	9.18 A LXM28... 0.5 kW, 220 V 9.18 A LXM28... 0.5 kW, 110 V
Maximum permanent current	3.24 A

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

Product compatibility	LXM26D servo drive 0.5 kW, 220 V, single phase LXM26D servo drive 0.5 kW, 220 V, three phase LXM28... servo drive 0.5 kW, 220 V, single phase LXM28... servo drive 0.5 kW, 220 V, three phase LXM28... servo drive 0.5 kW, 110 V, single phase
Shaft end	Keyed
Shaft diameter	0.9 in (22 mm)
Shaft length	1.8 in (45 mm)
Key width	0.3 in (8 mm)
Feedback type	20 bits single turn absolute encoder
Holding brake	With
Holding torque	85.0 lbf.in (9.6 N.m) built-in
Mounting Support	Asian standard flange
Motor flange size	5.1 in (130 mm)
Electrical connection	Connector MIL
Torque constant	0.83 N.m/A 68 °F (20 °C)
Back emf constant	50 V/krpm 68 °F (20 °C)
Number of motor poles	5.0
Rotor inertia	6.91 kg.cm²
Stator resistance	0.62 Ohm 68 °F (20 °C)
Stator inductance	7.14 mH 68 °F (20 °C)
Stator electrical time constant	11.94 ms 68 °F (20 °C)
Maximum radial force Fr	670 N 2000 rpm
Maximum axial force Fa	200 N
Brake pull-in power	19.7 W
Type of cooling	Natural convection
Length	7.2 in (183 mm)
Number of motor stacks	1
Centring collar diameter	4.3 in (110 mm)
Centring collar depth	0.3 in (8 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (9.2 mm)
Circle diameter of the mounting holes	5.7 in (145 mm)
Distance shaft shoulder-flange	0.3 in (8 mm)
Net Weight	18.08 lb(US) (8.2 kg)
Sizing reference	BCH2
Network number of phases	1
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	6.9 kg.cm² of brake 6.91 kg.cm² of motor

Environment

IP Degree of Protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient Air Temperature for Operation	32...104 °F (0...40 °C)

Ordering and shipping details

Category	US1PC5318281
Discount Schedule	PC53
GTIN	3606480734199
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	7.1 in (18.1 cm)
Package 1 Width	9.06 in (23 cm)
Package 1 Length	14.2 in (36 cm)
Package weight(Lbs)	324.5 oz (9200 g)

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	2 489 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	53 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1 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]	2 434 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	1 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	No
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 Longer



Lifetime extension

Repair	No
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Use Again



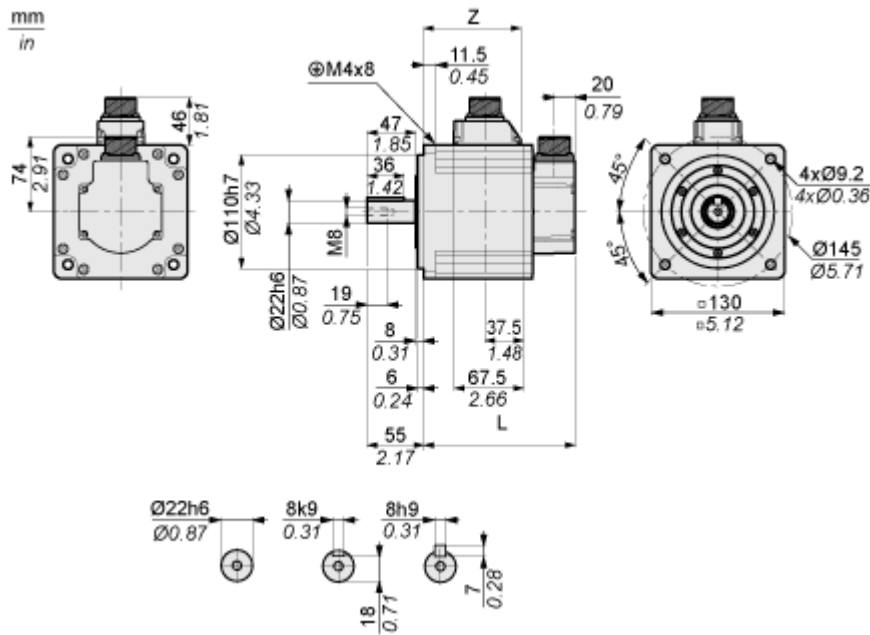
Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	No

Dimensions Drawings

Dimensions

Dimensions of Motor

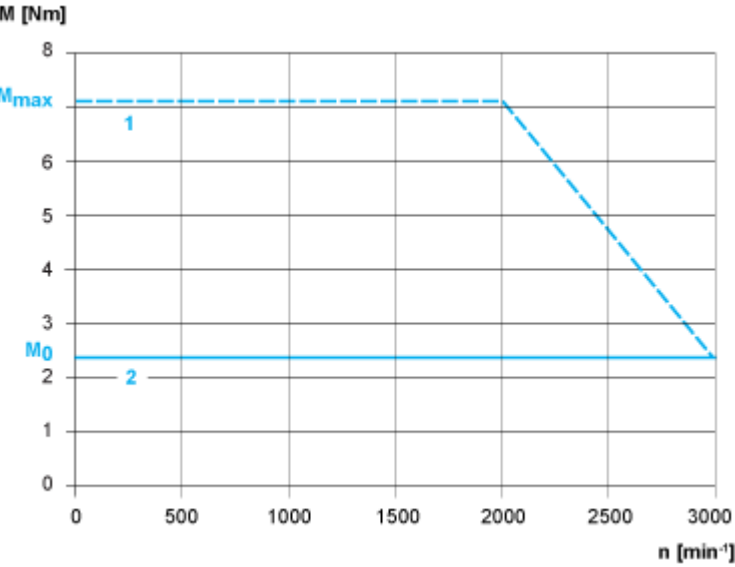


	mm	in.
L (without holding brake)	147	5.79
L (with holding brake)	183	7.2
Z	94.5	3.72

Performance Curves

Torque/Speed Curves with 230 V Single/Three Phase Supply Voltage

Servo Motor with LXM28AU04 Servo Drive



- 1 : Peak torque
- 2 : Continuous torque