

Product data sheet

Specifications



**servo motor BCH; Lexium 28;
130mm; 1000W; 6.63kg.cm²; with oil
seal; with key; straight connection**

BCH2MM1023CA6C

**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
Single phase

Continuous stall current 5.77 A

Continuous stall torque 42.22 lbf.in (4.77 N.m) LXM26D 7 A, 220 V, single phase
42.22 lbf.in (4.77 N.m) LXM26D 7 A, 220 V, three phase
42.22 lbf.in (4.77 N.m) LXM28 7 A, 220 V, single phase
42.22 lbf.in (4.77 N.m) LXM28 7 A, 220 V, three phase

Continuous power 1000 W

Peak stall torque 126.6 lbf.in (14.3 N.m) LXM26D 7 A, 220 V, single phase
126.6 lbf.in (14.3 N.m) LXM26D 7 A, 220 V, three phase
126.6 lbf.in (14.3 N.m) LXM28... 7 A, 220 V, single phase
126.6 lbf.in (14.3 N.m) LXM28... 7 A, 220 V, three phase

Nominal output power 1000 W LXM26D 7 A, 220 V, single phase
1000 W LXM26D 7 A, 220 V, three phase
1000 W LXM28... 7 A, 220 V, single phase
1000 W LXM28... 7 A, 220 V, three phase

Nominal torque 42.22 lbf.in (4.77 N.m) LXM26D 7 A, 220 V, single phase
42.22 lbf.in (4.77 N.m) LXM26D 7 A, 220 V, three phase
42.22 lbf.in (4.77 N.m) LXM28... 7 A, 220 V, single phase
42.22 lbf.in (4.77 N.m) LXM28... 7 A, 220 V, three phase

Nominal speed 2000 rpm LXM26D 7 A, 220 V, single phase
2000 rpm LXM26D 7 A, 220 V, three phase
2000 rpm LXM28... 7 A, 220 V, single phase
2000 rpm LXM28... 7 A, 220 V, three phase

Maximum current Irms 19.64 A LXM28... 1 kW, 220 V

Maximum permanent current 6.29 A

Product compatibility LXM26D servo drive 1 kW, 220 V, single phase
LXM26D servo drive 1 kW, 220 V, three phase
LXM28... servo drive 1 kW, 220 V, single phase
LXM28... servo drive 1 kW, 220 V, three phase

Shaft end Keyed

Shaft diameter 0.9 in (22 mm)

Shaft length 2.2 in (55 mm)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Key width	0.3 in (8 mm)
Feedback type	20 bits single turn absolute encoder
Holding brake	Without
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	6.63 kg.cm ²
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	5.8 in (147 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	15.4 lb(US) (7 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)

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	3606480734267
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	7.480 in (19.000 cm)
Package 1 Width	14.173 in (36.000 cm)
Package 1 Length	9.252 in (23.500 cm)
Package weight(Lbs)	17.242 lb(US) (7.821 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	9
Package 2 Height	29.528 in (75.000 cm)
Package 2 Width	23.622 in (60.000 cm)
Package 2 Length	31.496 in (80.000 cm)
Package 2 Weight	204.814 lb(US) (92.902 kg)



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)	4167
------------------------------------------------	------

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

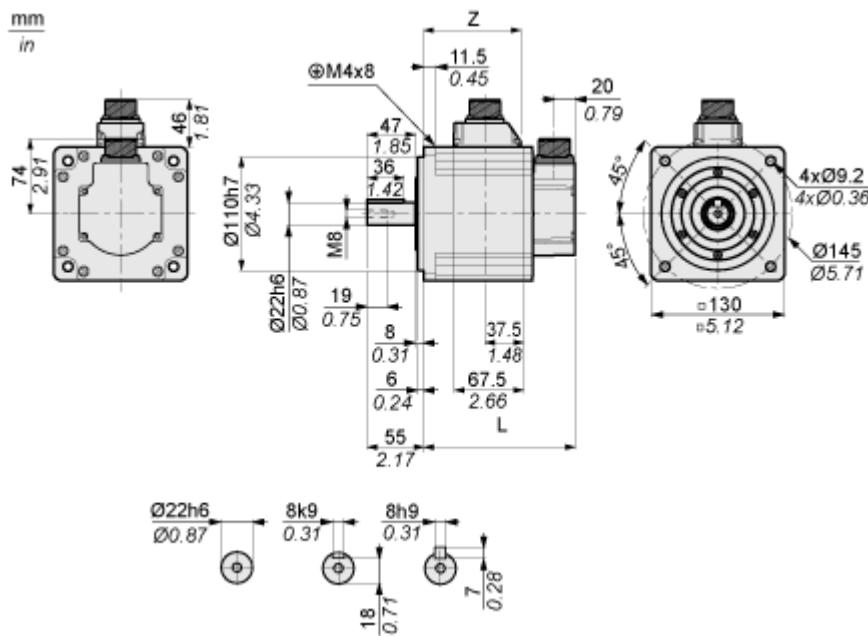
Circularity Profile	End of Life Information
---------------------	-----------------------------------------

Take-back	No
-----------	----

Dimensions Drawings

Dimensions

Dimensions of Motor



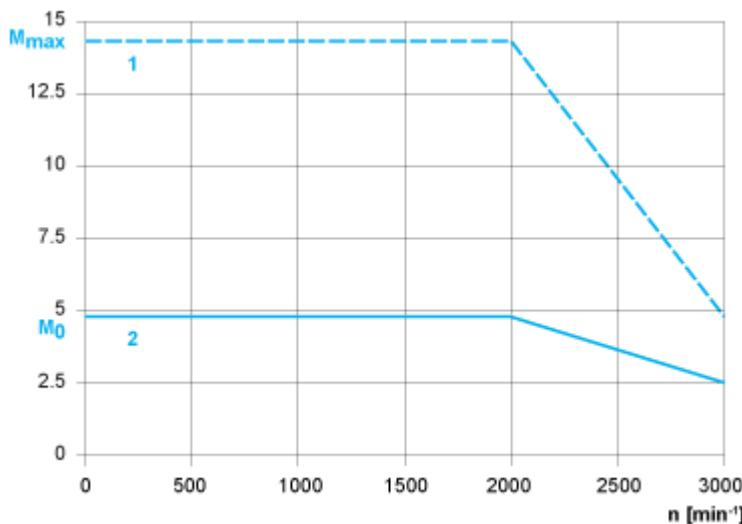
	mm	in.
L (without holding brake)	147	5.79
L (with holding brake)	183	7.2
Z	94.5	3.72

Performance Curves

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

Servo Motor with LXM28AU10*** Servo Drive

M [Nm]



1 : Peak torque

2 : Continuous torque