

Product data sheet

Specifications



servo motor BCH, Lexium 28,
130mm, 900W, 10kg.cm², without oil
seal, with key, brake, straight
connection

BCH2MM0911CF6C

! 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 Single phase
Continuous stall current	5.64 A
Continuous stall torque	76.03 lbf.in (8.59 N.m) LXM28 7 A, 220 V, single phase 76.03 lbf.in (8.59 N.m) LXM28 7 A, 220 V, three phase
Continuous power	900 W
Peak stall torque	228.08 lbf.in (25.77 N.m) LXM28... 7 A, 220 V, single phase 228.08 lbf.in (25.77 N.m) LXM28... 7 A, 220 V, three phase
Nominal output power	900 W LXM28... 7 A, 220 V, single phase 900 W LXM28... 7 A, 220 V, three phase
Nominal torque	76.03 lbf.in (8.59 N.m) LXM28... 7 A, 220 V, single phase 76.03 lbf.in (8.59 N.m) LXM28... 7 A, 220 V, three phase
Nominal speed	1000 rpm LXM28... 7 A, 220 V, single phase 1000 rpm LXM28... 7 A, 220 V, three phase
Maximum current Irms	19.81 A LXM28... 0.9 kW, 220 V
Maximum permanent current	6.15 A
Product compatibility	LXM28... servo drive 0.9 kW, 220 V, single phase LXM28... servo drive 0.9 kW, 220 V, three phase
Shaft end	Keyed
Shaft diameter	0.9 in (22 mm)
Shaft length	2.2 in (55 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

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

Motor flange size	5.1 in (130 mm)
Electrical connection	Connector MIL
Torque constant	1.52 N.m/A 68 °F (20 °C)
Back emf constant	92 V/krpm 68 °F (20 °C)
Rotor inertia	10 kg.cm²
Stator resistance	1.19 Ohm 68 °F (20 °C)
Stator inductance	14.9 mH 68 °F (20 °C)
Stator electrical time constant	12.52 ms 68 °F (20 °C)
Maximum radial force Fr	670 N 1000 rpm
Maximum axial force Fa	200 N
Brake pull-in power	19.7 W
Type of cooling	Natural convection
Length	7.8 in (198 mm)
Number of motor stacks	2
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	19.4 lb(US) (8.8 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	IP54 IM B5, IM V1 IP50 IM V3
Ambient air temperature for operation	32...104 °F (0...40 °C)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.1 in (18.1 cm)
Package 1 Width	9.06 in (23.0 cm)
Package 1 Length	14.2 in (36.0 cm)
Package 1 Weight	21.69 lb(US) (9.84 kg)

Contractual warranty



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

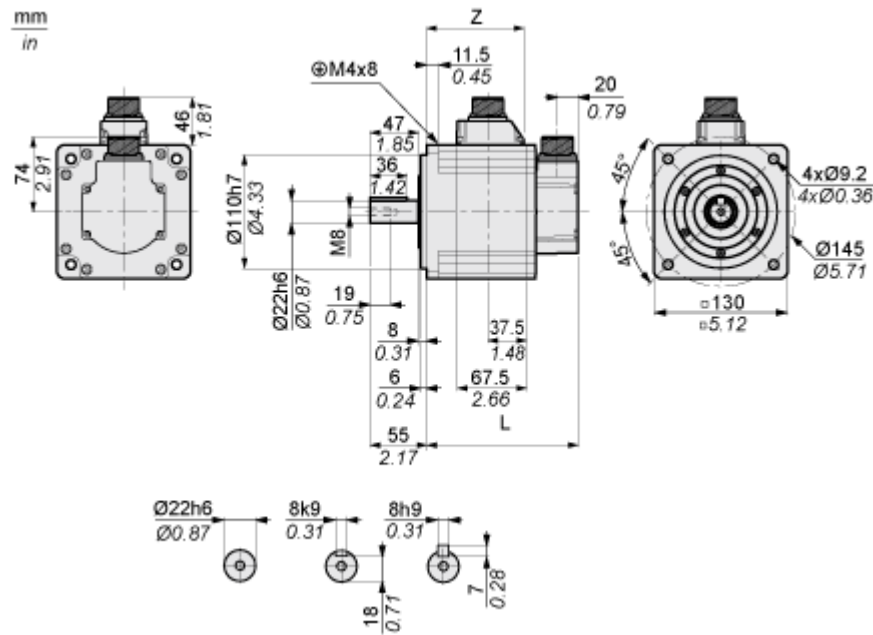
Circularity Profile

[End of Life Information](#)

Dimensions Drawings

Dimensions

Dimensions of Motor

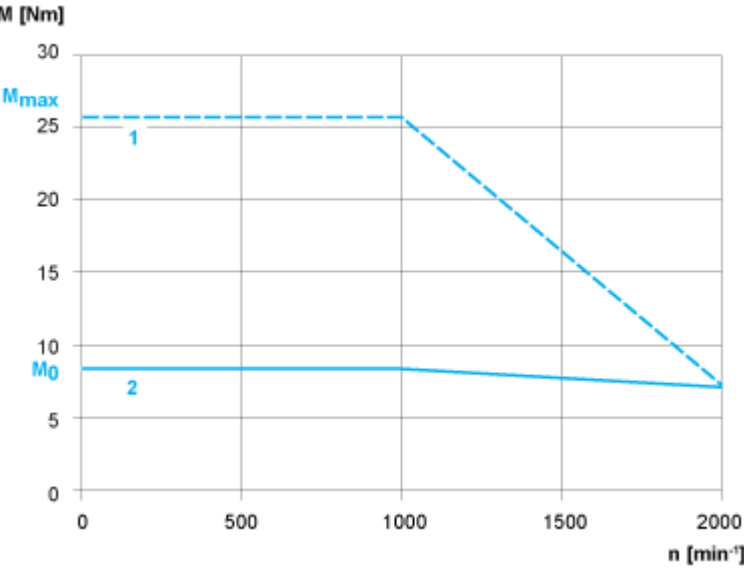


	mm	in.
L (without holding brake)	163	6.42
L (with holding brake)	198	7.8
Z	110.5	4.35

Performance Curves

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

Servo Motor with LXM28AU10 Servo Drive



- 1 : Peak torque
- 2 : Continuous torque