

Product datasheet

Specifications



servo motor BCH - 130mm - 500W
- no oil seal - w key - brake -
straight con

BCH2MM0521CF6C

⚠ Discontinued on: 18 Apr 2024

⚠ To be end-of-service on: 18 Apr 2026

⚠ Discontinued

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 |
| Network number of phases | Three phase Single phase |
| Continuous stall current | 2.89 A |
| Continuous stall torque | 2.39 N.m for LXM28... at 4.5 A, 220 V, single phase 2.39 N.m for LXM28... at 4.5 A, 220 V, three phase 2.39 N.m for LXM28... at 9 A, 110 V, single phase |
| Continuous power | 500 W |
| Peak stall torque | 7.16 N.m for LXM28... at 4.5 A, 220 V, single phase 7.16 N.m for LXM28... at 4.5 A, 220 V, three phase 7.16 N.m for LXM28... at 9 A, 110 V, single phase |
| Nominal output power | 500 W for LXM28... at 4.5 A, 220 V, single phase 500 W for LXM28... at 4.5 A, 220 V, three phase 500 W for LXM28... at 9 A, 110 V, single phase |
| Nominal torque | 2.39 N.m for LXM28... at 4.5 A, 220 V, single phase 2.39 N.m for LXM28... at 4.5 A, 220 V, three phase 2.39 N.m for LXM28... at 9 A, 110 V, single phase |
| Nominal speed | 2000 rpm for LXM28... at 4.5 A, 220 V, single phase 2000 rpm for LXM28... at 4.5 A, 220 V, three phase 2000 rpm for LXM28... at 9 A, 110 V, single phase |
| Maximum current Irms | 9.18 A for LXM28... at 0.5 kW, 220 V 9.18 A for LXM28... at 0.5 kW, 110 V |
| Maximum permanent current | 3.24 A |
| Product compatibility | LXM28... servo drive motor at 0.5 kW, 220 V, single phase LXM28... servo drive motor at 0.5 kW, 220 V, three phase LXM28... servo drive motor at 0.5 kW, 110 V, single phase |
| Shaft end | Keyed |
| Shaft diameter | 22 mm |
| Shaft length | 45 mm |
| Key width | 8 mm |

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

| | |
|---------------------------------------|--------------------------------------|
| Feedback type | 20 bits single turn absolute encoder |
| Holding brake | With |
| Holding torque | 9.6 N.m built-in |
| mounting support | Asian standard flange |
| Motor flange size | 130 mm |
| Electrical connection | Connector MIL |
| Torque constant | 0.83 N.m/A at 20 °C |
| Back emf constant | 50 V/krpm at 20 °C |
| Rotor inertia | 6.91 kg.cm² |
| Stator resistance | 0.62 Ohm at 20 °C |
| Stator inductance | 7.4 mH at 20 °C |
| Stator electrical time constant | 11.94 ms at 20 °C |
| Maximum radial force Fr | 670 N at 2000 rpm |
| Maximum axial force Fa | 200 N |
| Brake pull-in power | 19.7 W |
| Type of cooling | Natural convection |
| Length | 183 mm |
| Number of motor stacks | 1 |
| Centring collar diameter | 110 mm |
| Centring collar depth | 8 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 9.2 mm |
| Circle diameter of the mounting holes | 145 mm |
| Distance shaft shoulder-flange | 8 mm |
| net weight | 8.2 kg |

Environment

| | |
|---------------------------------------|---------------------------------|
| IP degree of protection | IP54 IM B5, IM V1 IP50 IM V3 |
| Ambient air temperature for operation | 0...40 °C |

Packing Units

| | |
|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 18.1 cm |
| Package 1 Width | 23.0 cm |
| Package 1 Length | 36.0 cm |
| Package 1 Weight | 9.2 kg |

Sustainability



Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

| | | |
|---|----------------------------|-----|
| ✓ | Reach Free Of Svhc | |
| ✓ | Mercury Free | |
| ✓ | Rohs Exemption Information | Yes |

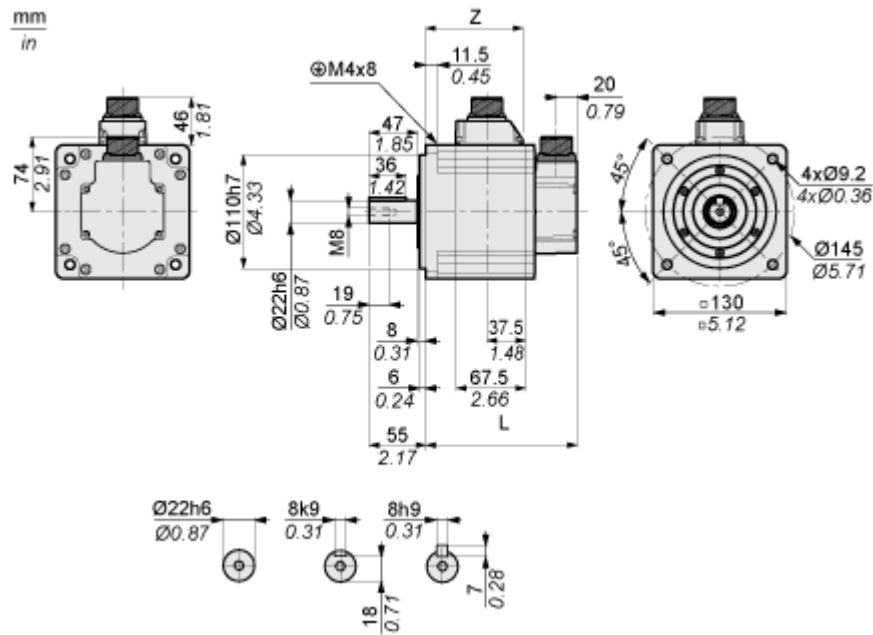
Certifications & Standards

| | |
|--------------------------|---|
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile | End of Life Information |

Dimensions Drawings

Dimensions

Dimensions of Motor

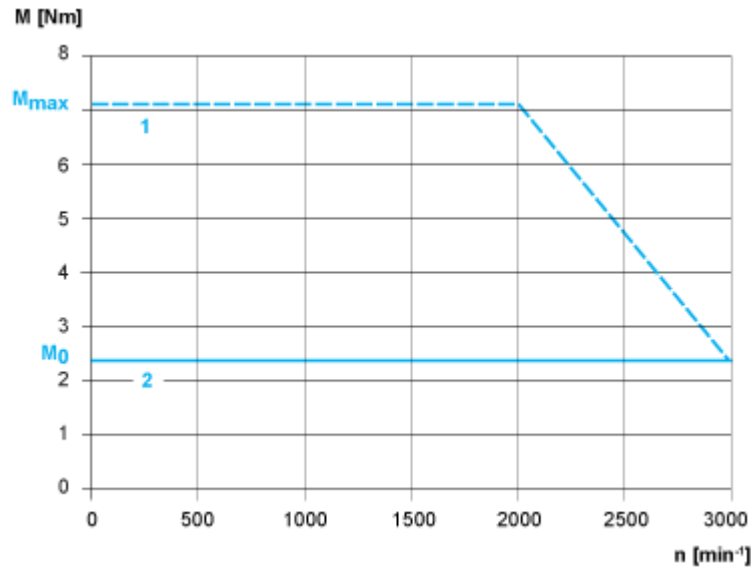


| | mm | in. |
|---------------------------|------|------|
| L (without holding brake) | 147 | 5.79 |
| L (with holding brake) | 183 | 7.2 |
| Z | 94.5 | 3.72 |

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