

Product data sheet

Specifications



servo motor BCH, Lexium 28,
80mm, 750W, 1.24kg.cm², without
oil seal, smooth, brake, leads
connection

BCH2LF0730CF5C

! Discontinued

! Discontinued on: Oct 9, 2023

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 | 5000 rpm |
| [Us] rated supply voltage | 220 V 110 V |
| Phase | Single phase Three phase |
| Continuous stall current | 4.01 A |
| Continuous stall torque | 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 | 750 W |
| Peak stall torque | 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 | 750 W LXM28... 4.5 A, 220 V, single phase 750 W LXM28... 4.5 A, 220 V, three phase 750 W LXM28... 9 A, 110 V, single phase |
| Nominal torque | 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 | 3000 rpm LXM28... 4.5 A, 220 V, single phase 3000 rpm LXM28... 4.5 A, 220 V, three phase 3000 rpm LXM28... 9 A, 110 V, single phase |
| Maximum current Irms | 13.23 A LXM28... 0.75 kW, 220 V 13.23 A LXM28... 0.75 kW, 110 V |
| Maximum permanent current | 4.29 A |
| Product compatibility | LXM28... servo drive 0.75 kW, 220 V, single phase LXM28... servo drive 0.75 kW, 220 V, three phase LXM28... servo drive 0.75 kW, 110 V, single phase |
| Shaft end | Smooth shaft |
| Shaft diameter | 0.7 in (19 mm) |
| Shaft length | 1.4 in (35 mm) |

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

| | |
|---------------------------------------|--------------------------------------|
| Feedback type | 20 bits single turn absolute encoder |
| Holding brake | With |
| Holding torque | 22.1 lbf.in (2.5 N.m) built-in |
| Mounting Support | Asian standard flange |
| Motor flange size | 3.1 in (80 mm) |
| Electrical connection | Free lead |
| Torque constant | 0.6 N.m/A 68 °F (20 °C) |
| Back emf constant | 36 V/krpm 68 °F (20 °C) |
| Rotor inertia | 1.24 kg.cm² |
| Stator resistance | 1.5 Ohm 68 °F (20 °C) |
| Stator inductance | 6.1 mH 68 °F (20 °C) |
| Stator electrical time constant | 4.07 ms 68 °F (20 °C) |
| Maximum radial force Fr | 332 N 3000 rpm |
| Maximum axial force Fa | 115 N |
| Brake pull-in power | 10.2 W |
| Type of cooling | Natural convection |
| Length | 7.008 in (178 mm) |
| Number of motor stacks | 2 |
| Centring collar diameter | 2.8 in (70 mm) |
| Centring collar depth | 0.2 in (4 mm) |
| Number of mounting holes | 4 |
| Mounting holes diameter | 0.3 in (6.6 mm) |
| Circle diameter of the mounting holes | 3.5 in (90 mm) |
| Distance shaft shoulder-flange | 0.2 in (4 mm) |
| Net Weight | 7.9 lb(US) (3.6 kg) |

Environment

| | |
|---------------------------------------|---------------------------------|
| IP Degree of Protection | IP54 IM B5, IM V1 IP50 IM V3 |
| Ambient Air Temperature for Operation | 32...104 °F (0...40 °C) |

Ordering and shipping details

| | |
|-------------------|---------------|
| Category | US1PC5318281 |
| Discount Schedule | PC53 |
| GTIN | 3606480733819 |
| Returnability | No |
| Country of origin | CN |

Packing Units

| | |
|------------------------------|------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5.4 in (13.8 cm) |

| | |
|------------------|-----------------------|
| Package 1 Width | 6.9 in (17.5 cm) |
| Package 1 Length | 11.7 in (29.6 cm) |
| Package 1 Weight | 9.28 lb(US) (4.21 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

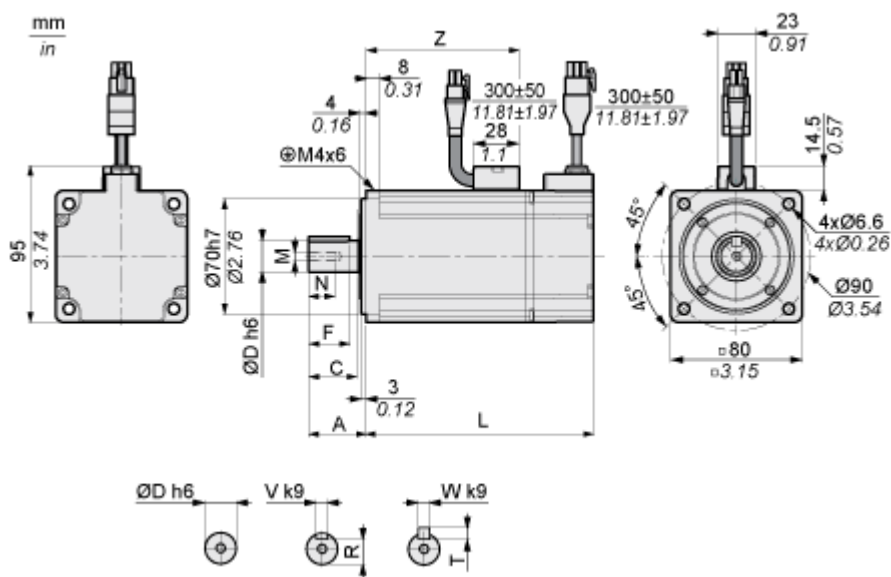
| | | |
|---|----------------------------|-----|
| ✓ | Reach Free Of Svhc | |
| ✓ | Mercury Free | |
| ✓ | Rohs Exemption Information | Yes |
| ✓ | Pvc Free | |

Certifications & Standards

| | |
|---------------------------|---|
| 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 |
| 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 |

BCH2LF0730CF5C

Dimensions

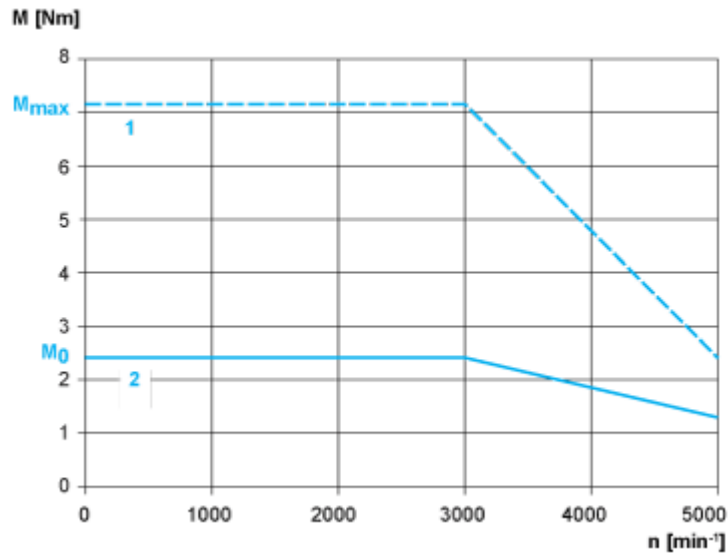


| | mm | in. |
|---------------------------|------|------|
| L (without holding brake) | 138 | 5.43 |
| L (with holding brake) | 178 | 7.01 |
| A | 35 | 1.38 |
| C | 29.5 | 1.16 |
| D | 19 | 0.75 |
| F | 25 | 0.98 |
| R | 15.5 | 0.61 |
| T | 6 | 0.24 |
| V | 6 | 0.24 |
| W | 6 | 0.24 |
| Z | 93 | 3.66 |

Performance Curves

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

Servo Motor with LXM28AU02 Servo Drive



- 1 : Peak torque
- 2 : Continuous torque