

Product data sheet

Specifications



servo motor BCH, Lexium 28,
100mm, 2000W, 4.35kg.cm², with oil
seal, with key, brake, straight
connection

BCH2LH2033CF6C

**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 |
| Phase | Three phase |
| Continuous stall current | 9.87 A |
| Continuous stall torque | 56.38 lbf.in (6.37 N.m) LXM26D 12 A, 220 V, three phase 56.38 lbf.in (6.37 N.m) LXM28 12 A, 220 V, three phase |
| Continuous power | 2000 W |
| Peak stall torque | 169.14 lbf.in (19.11 N.m) LXM26D 12 A, 220 V, three phase 169.14 lbf.in (19.11 N.m) LXM28... 12 A, 220 V, three phase |
| Nominal output power | 2000 W LXM26D 12 A, 220 V, three phase 2000 W LXM28... 12 A, 220 V, three phase |
| Nominal torque | 56.38 lbf.in (6.37 N.m) LXM26D 12 A, 220 V, three phase 56.38 lbf.in (6.37 N.m) LXM28... 12 A, 220 V, three phase |
| Nominal speed | 3000 rpm LXM26D 12 A, 220 V, three phase 3000 rpm LXM28... 12 A, 220 V, three phase |
| Maximum current Irms | 32.3 A LXM26D 2 kW, 220 V 32.3 A LXM28... 2 kW, 220 V |
| Maximum permanent current | 10.27 A |
| Product compatibility | LXM26D servo drive 2 kW, 220 V, three phase LXM28... servo drive 2 kW, 220 V, three 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 | 57.5 lbf.in (6.5 N.m) built-in |
| Mounting Support | Asian standard flange |
| Motor flange size | 3.9 in (100 mm) |

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

| | |
|---------------------------------------|--------------------------|
| Electrical connection | Connector MIL |
| Torque constant | 0.65 N.m/A 68 °F (20 °C) |
| Back emf constant | 39 V/krpm 68 °F (20 °C) |
| Number of motor poles | 5.0 |
| Rotor inertia | 4.35 kg.cm ² |
| Stator resistance | 0.36 Ohm 68 °F (20 °C) |
| Stator inductance | 2.59 mH 68 °F (20 °C) |
| Stator electrical time constant | 7.19 ms 68 °F (20 °C) |
| Maximum radial force Fr | 570 N 3000 rpm |
| Maximum axial force Fa | 200 N |
| Brake pull-in power | 10.4 W |
| Type of cooling | Natural convection |
| Length | 8.9 in (225.5 mm) |
| Number of motor stacks | 2 |
| Centring collar diameter | 3.7 in (95 mm) |
| Centring collar depth | 0.3 in (7 mm) |
| Number of mounting holes | 4 |
| Mounting holes diameter | 0.4 in (9.2 mm) |
| Circle diameter of the mounting holes | 4.5 in (115 mm) |
| Distance shaft shoulder-flange | 0.3 in (7 mm) |
| Product Weight | 15.9 lb(US) (7.2 kg) |
| Sizing reference | BCH2 |
| Network number of phases | 3 |
| 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 | 32...104 °F (0...40 °C) |

Ordering and shipping details

| | |
|-------------------|---------------|
| Category | US1PC5318281 |
| Discount Schedule | PC53 |
| GTIN | 3606480734113 |
| Returnability | No |
| Country of origin | CN |

Packing Units

| | |
|------------------------|-----|
| Unit Type of Package 1 | PCE |
|------------------------|-----|

| | |
|------------------------------|--------------------------|
| Nbr. of units in pkg. | 1 |
| Package 1 Height | 11.81 in (30.000 cm) |
| Package 1 Width | 11.81 in (30.000 cm) |
| Package 1 Length | 15.75 in (40.000 cm) |
| Package weight(Lbs) | 19.495 lb(US) (8.843 kg) |



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 | |
|--|---|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 7520 |
| 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 |

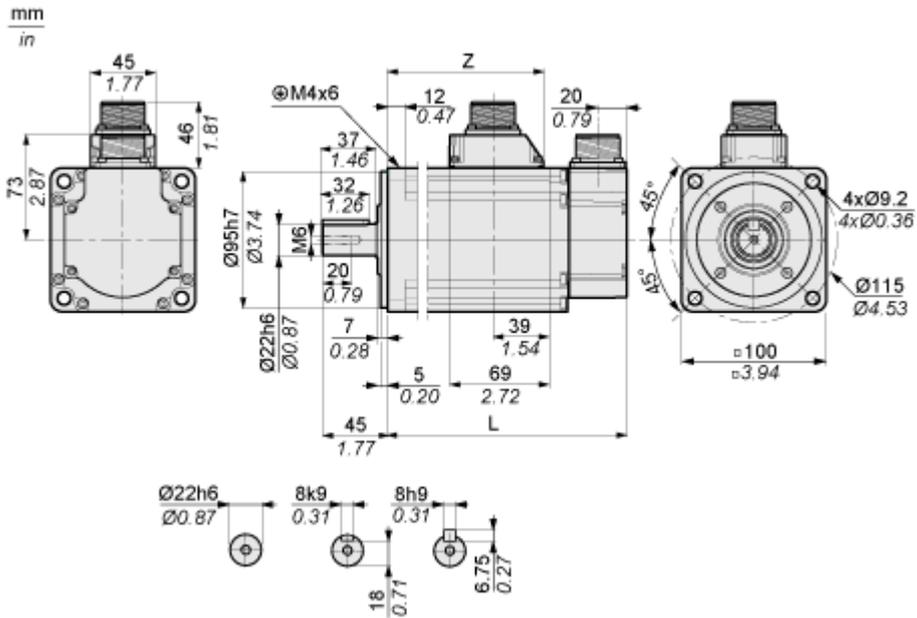
Use Again

| Repack and remanufacture | |
|--------------------------|---|
| Circularity Profile | End of Life Information |
| Take-back | No |

Dimensions Drawings

Dimensions

Dimensions of Motor

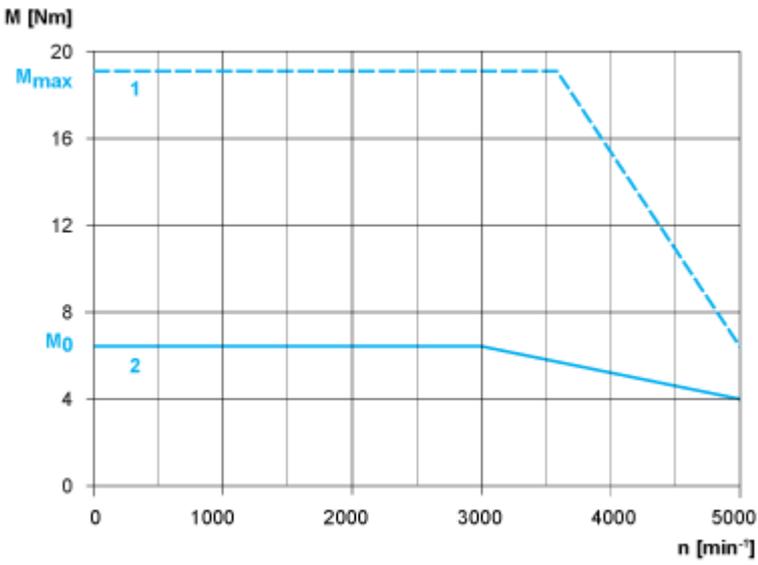


| | mm | in. |
|---------------------------|-------|------|
| L (without holding brake) | 198.5 | 7.81 |
| L (with holding brake) | 225.5 | 8.88 |
| Z | 141 | 5.55 |

Performance Curves

Torque/Speed Curves with 230 V Three Phase Supply Voltage

Servo Motor with LXM28AU20••• Servo Drive



- 1 : Peak torque
- 2 : Continuous torque