Product datasheet

Specifications





servo motor BCH, Lexium 28, 40mm, 100W, 0.076kg.cm², with oil seal, with key, brake, leads connection

BCH2MB0133CF5C

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 |
| Network number of phases | Three phase Single phase |
| Continuous stall current | 0.81 A |
| Continuous stall torque | 0.32 N.m for LXM26D at 0.9 A, 220 V, single phase 0.32 N.m for LXM26D at 0.9 A, 220 V, three phase 0.32 N.m for LXM28 at 0.9 A, 220 V, single phase 0.32 N.m for LXM28 at 0.9 A, 220 V, three phase 0.32 N.m for LXM28 at 0.9 A, 210 V, single phase |
| Continuous power | 100 W |
| Peak stall torque | 0.96 N.m for LXM26D at 0.9 A, 220 V, single phase 0.96 N.m for LXM26D at 0.9 A, 220 V, three phase 0.96 N.m for LXM28 at 0.9 A, 220 V, single phase 0.96 N.m for LXM28 at 0.9 A, 220 V, three phase 0.96 N.m for LXM28 at 0.9 A, 110 V, single phase |
| Nominal output power | 100 W for LXM26D at 0.9 A, 220 V, single phase 100 W for LXM26D at 0.9 A, 220 V, three phase 100 W for LXM28 at 0.9 A, 220 V, single phase 100 W for LXM28 at 0.9 A, 220 V, three phase 100 W for LXM28 at 1.8 A, 110 V, single phase |
| Nominal torque | 0.32 N.m for LXM26D at 0.9 A, 220 V, single phase 0.32 N.m for LXM26D at 0.9 A, 220 V, three phase 0.32 N.m for LXM28 at 0.9 A, 220 V, single phase 0.32 N.m for LXM28 at 0.9 A, 220 V, three phase 0.32 N.m for LXM28 at 0.9 A, 210 V, three phase 0.32 N.m for LXM28 at 1.8 A, 110 V, single phase |
| Nominal speed | 3000 rpm for LXM26D at 0.9 A, 220 V, single phase 3000 rpm for LXM26D at 0.9 A, 220 V, three phase 3000 rpm for LXM28 at 0.9 A, 220 V, single phase 3000 rpm for LXM28 at 0.9 A, 220 V, three phase 3000 rpm for LXM28 at 0.9 A, 10 V, single phase |
| Maximum current Irms | 2.65 A for LXM28 at 0.1 kW, 220 V 2.65 A for LXM28 at 0.1 kW, 110 V |
| Maximum permanent current | 0.89 Δ |

Maximum permanent current

0.89 A

| Product compatibility | LXM26D servo drive motor at 0.1 kW, 220 V, single phase LXM26D servo drive motor at 0.1 kW, 220 V, three phase LXM28 servo drive motor at 0.1 kW, 220 V, single phase LXM28 servo drive motor at 0.1 kW, 220 V, three phase LXM28 servo drive motor at 0.1 kW, 110 V, single phase |
|---------------------------------------|--|
| Shaft end | Keyed |
| Shaft diameter | 8 mm |
| Shaft length | 25 mm |
| Key width | 3 mm |
| Feedback type | 20 bits single turn absolute encoder |
| Holding brake | With |
| Holding torque | 0.32 N.m built-in |
| mounting support | Asian standard flange |
| Motor flange size | 40 mm |
| Electrical connection | Free lead |
| Torque constant | 0.4 N.m/A at 20 °C |
| Back emf constant | 24 V/krpm at 20 °C |
| Rotor inertia | 0.076 kg.cm ² |
| Stator resistance | 23.4 Ohm at 20 °C |
| Stator inductance | 20.6 mH at 20 °C |
| Stator electrical time constant | 0.88 ms at 20 °C |
| Maximum radial force Fr | 85 N at 3000 rpm |
| Maximum axial force Fa | 40 N |
| Brake pull-in power | 4.35 W |
| Type of cooling | Natural convection |
| Length | 130 mm |
| Number of motor stacks | 2 |
| Centring collar diameter | 30 mm |
| Centring collar depth | 3 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 4.5 mm |
| Circle diameter of the mounting holes | 46 mm |
| Distance shaft shoulder-flange | 3 mm |
| Net weight | 0.77 kg |

Environment

| IP degree of protection | IP50 IM V3 IP65 IM B5, IM V1 |
|---------------------------------------|---------------------------------|
| Ambient air temperature for operation | 040 °C |

Packing Units

| Unit Type of Package 1 | PCE |
|------------------------------|-----|
| Number of Units in Package 1 | 1 |

| Package 1 Height | 8.0 cm |
|------------------------------|----------|
| Package 1 Width | 13.0 cm |
| Package 1 Length | 24.0 cm |
| Package 1 Weight | 1.05 kg |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 3 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 3.156 kg |

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass 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

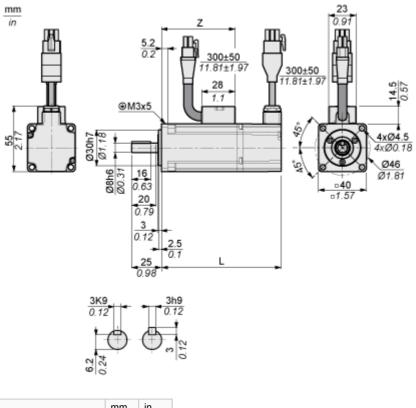
| Reach Regulation | REACh Declaration | |
|--------------------------|---|--|
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) | |
| China Rohs Regulation | China RoHS declaration | |
| Environmental Disclosure | Product Environmental Profile | |
| Weee | The product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

Product datasheet

Dimensions Drawings

Dimensions

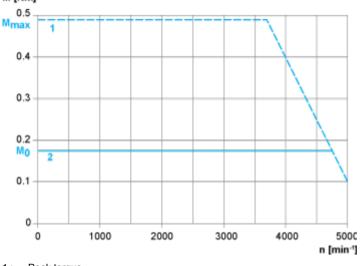
Dimensions of Motor



| | mm | in. |
|---------------------------|------|------|
| L (without holding brake) | 100 | 3.94 |
| L (with holding brake) | 130 | 5.12 |
| Z | 61.5 | 2.42 |

Performance Curves

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



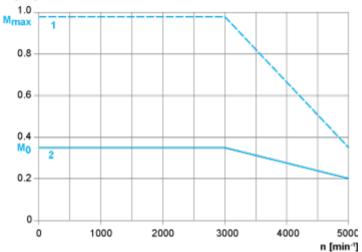
Servo Motor without shaft sealing ring and LXM28AU01 $\bullet \bullet \bullet$ Servo Drive M [Nm]

1: Peak torque

2: Continuous torque

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



Servo Motor with shaft sealing ring and LXM28AU01 $\bullet \bullet \bullet$ Servo Drive M [Nm]

1: Peak torque

2: Continuous torque