



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 | 0.81 A |
| Continuous stall torque | 2.83 Lbf.in (0.32 N.m) LXM28... 0.9 A, 220 V, single phase 2.83 Lbf.in (0.32 N.m) LXM28... 0.9 A, 220 V, three phase 2.83 lbf.in (0.32 N.m) LXM28... 1.8 A, 110 V, single phase |
| Continuous power | 100 W |
| Peak stall torque | 8.50 Lbf.in (0.96 N.m) LXM28... 0.9 A, 220 V, single phase 8.50 Lbf.in (0.96 N.m) LXM28... 0.9 A, 220 V, three phase 8.50 lbf.in (0.96 N.m) LXM28... 1.8 A, 110 V, single phase |
| Nominal output power | 100 W LXM28... 0.9 A, 220 V, single phase 100 W LXM28... 0.9 A, 220 V, three phase 100 W LXM28... 1.8 A, 110 V, single phase |
| Nominal torque | 2.83 Lbf.in (0.32 N.m) LXM28... 0.9 A, 220 V, single phase 2.83 Lbf.in (0.32 N.m) LXM28... 0.9 A, 220 V, three phase 2.83 lbf.in (0.32 N.m) LXM28... 1.8 A, 110 V, single phase |
| Nominal speed | 3000 rpm LXM28... 0.9 A, 220 V, single phase 3000 rpm LXM28... 0.9 A, 220 V, three phase 3000 rpm LXM28... 1.8 A, 110 V, single phase |
| Maximum current Irms | 2.65 A LXM28... 0.1 kW, 220 V 2.65 A LXM28... 0.1 kW, 110 V |
| Maximum permanent current | 0.89 A |
| Product compatibility | LXM28... servo drive 0.1 kW, 220 V, single phase LXM28... servo drive 0.1 kW, 220 V, three phase LXM28... servo drive 0.1 kW, 110 V, single phase |
| Shaft end | Smooth shaft |
| Shaft diameter | 0.3 in (8 mm) |
| Shaft length | 1.0 in (25 mm) |
| Feedback type | 20 bits single turn absolute encoder |
| Holding brake | Without |
| Mounting Support | Asian standard flange |
| Motor flange size | 1.6 in (40 mm) |
| Electrical connection | Free lead |
| Torque constant | 0.4 N.m/A 68 °F (20 °C) |
| Back emf constant | 24 V/krpm 68 °F (20 °C) |

| | |
|---------------------------------------|--------------------------|
| Rotor inertia | 0.075 kg.cm ² |
| Stator resistance | 23.4 Ohm 68 °F (20 °C) |
| Stator inductance | 20.6 mH 68 °F (20 °C) |
| Stator electrical time constant | 0.88 ms 68 °F (20 °C) |
| Maximum radial force Fr | 85 N 3000 rpm |
| Maximum axial force Fa | 40 N |
| Brake pull-in power | 4.35 W |
| Type of cooling | Natural convection |
| Length | 3.9 in (100 mm) |
| Number of motor stacks | 2 |
| Centring collar diameter | 1.2 in (30 mm) |
| Centring collar depth | 0.1 in (3 mm) |
| Number of mounting holes | 4 |
| Mounting holes diameter | 0.2 in (4.5 mm) |
| Circle diameter of the mounting holes | 1.8 in (46 mm) |
| Distance shaft shoulder-flange | 0.1 in (3 mm) |
| Net Weight | 1.23 lb(US) (0.56 kg) |

Environment

| | |
|---------------------------------------|---------------------------------|
| IP Degree of Protection | IP50 IM V3 IP65 IM B5, IM V1 |
| Ambient Air Temperature for Operation | -4...104 °F (-20...40 °C) |

Ordering and shipping details




| | |
|-------------------|---------------|
| Category | US1PC5318281 |
| Discount Schedule | PC53 |
| GTIN | 3606480733444 |
| Returnability | No |
| Country of origin | CN |

Packing Units

| | |
|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.1 in (8.0 cm) |
| Package 1 Width | 5.1 in (13.0 cm) |
| Package 1 Length | 9.4 in (24.0 cm) |
| Package 1 Weight | 27.6 oz (781.5 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 3 |
| Package 2 Height | 5.9 in (15.0 cm) |
| Package 2 Width | 11.8 in (30.0 cm) |
| Package 2 Length | 15.7 in (40.0 cm) |
| Package 2 Weight | 5.966 lb(US) (2.706 kg) |

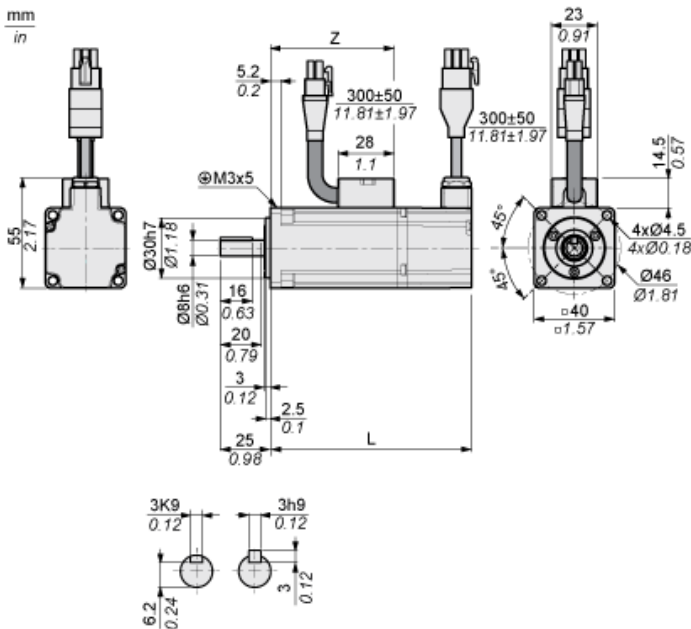
Offer Sustainability

| | |
|---------------------------|---|
| Sustainable offer status | Green Premium product |
| 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 |
| REACH Regulation |  REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Mercury free | Yes |
| China RoHS Regulation |  China RoHS Declaration |

| | |
|----------------------------|---|
| RoHS exemption information |  Yes |
| Environmental Disclosure |  Product Environmental Profile |
| Circularity Profile |  End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| PVC free | Yes |

Dimensions

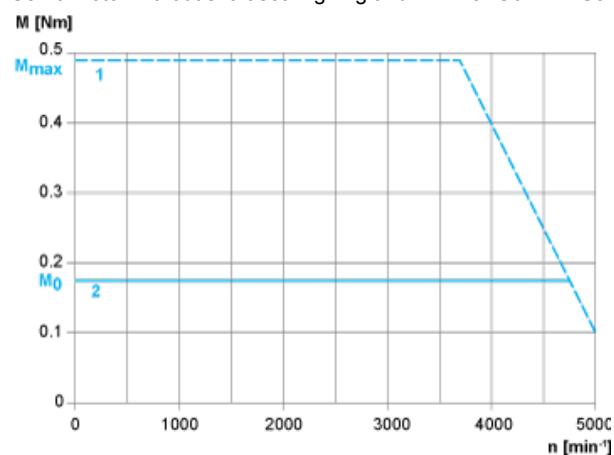
Dimensions of Motor



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

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

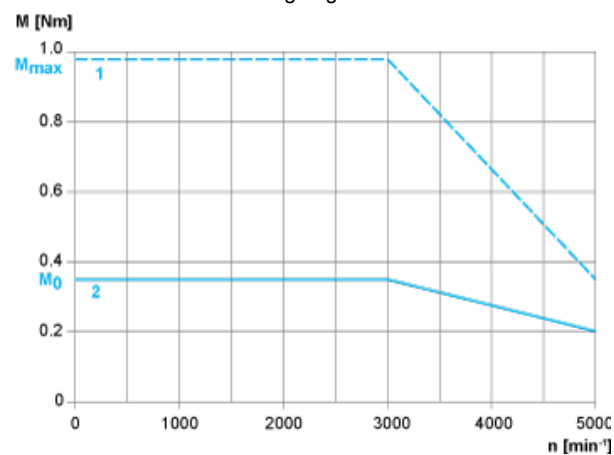
Servo Motor without shaft sealing ring and LXM28AU01●●● Servo Drive



- 1 : Peak torque
- 2 : Continuous torque

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

Servo Motor with shaft sealing ring and LXM28AU01●●● Servo Drive



- 1 : Peak torque
- 2 : Continuous torque