



Main

| | |
|---------------------------|-------------|
| Range compatibility | Lexium 28 |
| Product or component type | Servo motor |
| Device short name | BCH2 |

Complementary

| | |
|---------------------------------|---|
| Maximum mechanical speed | 3000 rpm |
| [Us] rated supply voltage | 220 V |
| Phase | Three phase |
| Continuous stall current | 19.68 A |
| Continuous stall torque | 253.57 lbf.in (28.65 N.m) LXM28... 22.9 A, 220 V, three phase |
| Continuous power | 4500 W |
| Peak stall torque | 633.89 lbf.in (71.62 N.m) LXM28... 22.9 A, 220 V, three phase |
| Nominal output power | 4500 W LXM28... 22.9 A, 220 V, three phase |
| Nominal torque | 253.57 lbf.in (28.65 N.m) LXM28... 22.9 A, 220 V, three phase |
| Nominal speed | 1500 rpm LXM28... 22.9 A, 220 V, three phase |
| Maximum current Irms | 57.6 A LXM28... 4.5 kW, 220 V |
| Maximum permanent current | 22.8 A |
| Product compatibility | LXM28... servo drive 4.5 kW, 220 V, three phase |
| Shaft end | Smooth shaft |
| Shaft diameter | 1.38 in (35 mm) |
| Shaft length | 3.11 in (79 mm) |
| Feedback type | 20 bits single turn absolute encoder |
| Holding brake | With |
| Holding torque | 424.84 lbf.in (48 N.m) built-in |
| Mounting support | Asian standard flange |
| Motor flange size | 7.09 in (180 mm) |
| Electrical connection | Connector MIL |
| Torque constant | 1.46 N.m/A 68 °F (20 °C) |
| Back emf constant | 88 V/krpm 68 °F (20 °C) |
| Rotor inertia | 74 kg.cm ² |
| Stator resistance | 0.199 Ohm 68 °F (20 °C) |
| Stator inductance | 3.8 mH 68 °F (20 °C) |
| Stator electrical time constant | 19.1 ms 68 °F (20 °C) |
| Maximum radial force Fr | 1200 N 1500 rpm |
| Maximum axial force Fa | 497 N |
| Brake pull-in power | 49.6 W |
| Type of cooling | Natural convection |
| Length | 10.98 in (279 mm) |
| Number of motor stacks | 3 |
| Centring collar diameter | 4.50 in (114.3 mm) |

| | |
|---------------------------------------|----------------------|
| Centring collar depth | 0.16 in (4 mm) |
| Number of mounting holes | 4 |
| Mounting holes diameter | 0.53 in (13.5 mm) |
| Circle diameter of the mounting holes | 7.87 in (200 mm) |
| Distance shaft shoulder-flange | 0.16 in (4 mm) |
| Net Weight | 61.73 lb(US) (28 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 | 18281 - LEXIUM 23/28 MOTORS |
| Discount Schedule | PC53 |
| GTIN | 03606480735011 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 65.3 lb(US) (29.62 kg) |
| Returnability | No |
| Country of origin | CN |

Packing Units

| | |
|------------------------|--------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 9.65 in (24.5 cm) |
| Package 1 width | 11.42 in (29 cm) |
| Package 1 Length | 23.03 in (58.5 cm) |

Dimensions

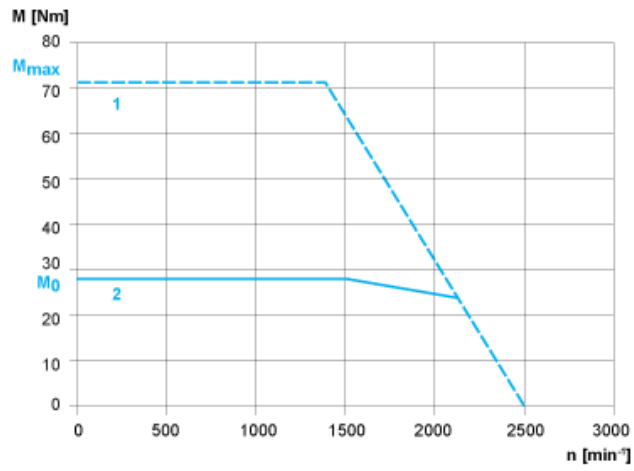
Dimensions of Motor



| | mm | in. |
|---------------------------|-----|-------|
| L (without holding brake) | 235 | 9.25 |
| L (with holding brake) | 279 | 10.98 |
| A | 79 | 3.11 |
| C | 73 | 2.87 |
| D | 35 | 1.38 |
| F | 63 | 2.48 |
| N | 28 | 1.10 |
| M | M12 | |
| R | 30 | 1.18 |
| V | 10 | 0.39 |
| W | 10 | 0.39 |
| Z | 169 | 6.65 |

Torque/Speed Curves with 230 V Three Phase Supply Voltage

Servo Motor with LXM28AU45●●● Servo Drive



- 1: Peak torque
- 2: Continuous torque