



## Main

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

## Complementary

|                           |  |
|---------------------------|--|
| Maximum mechanical speed  | 5000 rpm   |
| [Us] rated supply voltage | 220 V  |
| Phase                     | Three phase<br>Single 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<br>21.15 Lbf.in (2.39 N.m) LXM28... 4.5 A, 220 V, three phase<br>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<br>63.37 Lbf.in (7.16 N.m) LXM28... 4.5 A, 220 V, three phase<br>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<br>750 W LXM28... 4.5 A, 220 V, three phase<br>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<br>21.15 Lbf.in (2.39 N.m) LXM28... 4.5 A, 220 V, three phase<br>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<br>3000 rpm LXM28... 4.5 A, 220 V, three phase<br>3000 rpm LXM28... 9 A, 110 V, single phase  |
| Maximum current Irms      | 13.23 A LXM28... 0.75 kW, 220 V<br>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<br>LXM28... servo drive 0.75 kW, 220 V, three phase<br>LXM28... servo drive 0.75 kW, 110 V, single phase                             |
| Shaft end                 | Smooth shaft   |
| Shaft diameter            | 0.75 in (19 mm)  |
| Shaft length              | 1.38 in (35 mm)  |
| Feedback type             | 20 bits single turn absolute encoder   |
| Holding brake             | Without  |
| Mounting support          | Asian standard flange  |
| Motor flange size         | 3.15 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             | 1.54 kg.cm <sup>2</sup>  |

|                                       |                       |
|---------------------------------------|-----------------------|
| 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                                | 5.43 in (138 mm)      |
| Number of motor stacks                | 2                     |
| Centring collar diameter              | 2.76 in (70 mm)       |
| Centring collar depth                 | 0.16 in (4 mm)        |
| Number of mounting holes              | 4                     |
| Mounting holes diameter               | 0.26 in (6.6 mm)      |
| Circle diameter of the mounting holes | 3.54 in (90 mm)       |
| Distance shaft shoulder-flange        | 0.16 in (4 mm)        |
| Net Weight                            | 6.39 lb(US) (2.9 kg)  |

## Environment

|                                       |                                 |
|---------------------------------------|---------------------------------|
| IP degree of protection               | IP54 IM B5, IM V1<br>IP50 IM V3 |
| Ambient air temperature for operation | -4...104 °F (-20...40 °C)       |

## Ordering and shipping details

|                       |                             |
|-----------------------|-----------------------------|
| Category              | 18281 - LEXIUM 23/28 MOTORS |
| Discount Schedule     | PC53                        |
| GTIN                  | 03606480733727              |
| Nbr. of units in pkg. | 1                           |
| Package weight(Lbs)   | 7.7 lb(US) (3.49 kg)        |
| Returnability         | No                          |
| Country of origin     | CN                          |

## Packing Units

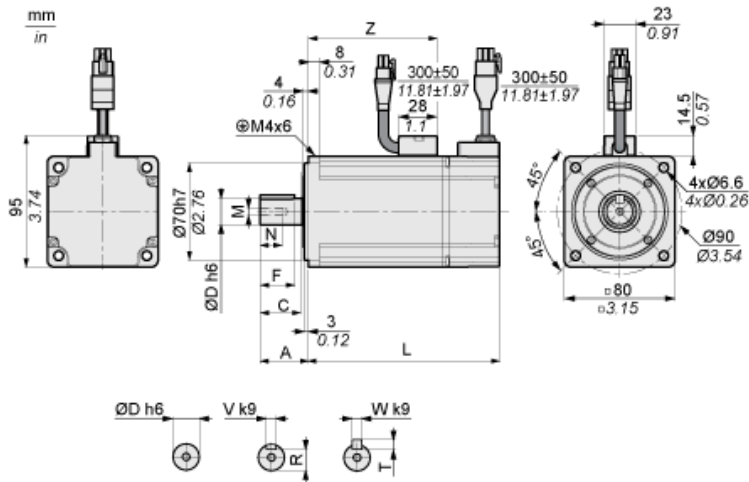
|                  |                       |
|------------------|-----------------------|
| Package 1 Height | 5.43 in (138.000 mm)  |
| Package 1 width  | 6.89 in (175.000 mm)  |
| Package 1 Length | 11.65 in (296.000 mm) |

## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| REACH free of SVHC         | Yes  |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                               |
| Mercury free               | Yes  |
| RoHS exemption information | <a href="#">Yes</a>  |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>   |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>  |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Dimensions

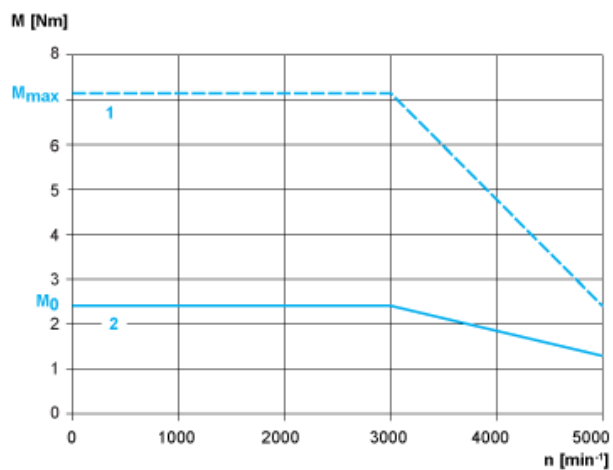
Dimensions of Motor



|                           | 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 |

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

Servo Motor with LXM28AU04●●● Servo Drive



- 1 : Peak torque
- 2 : Continuous torque