

# Product data sheet

## Characteristics

### BCH2MM0613CA6C

servo motor BCH, Lexium 28, 130mm, 600W, 6.63kg.cm<sup>2</sup>, with oil seal, with key, straight connection



#### Main

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

#### Complementary

|                           |   |
|---------------------------|---|
| Maximum mechanical speed  | 3000 rpm  |
| [Us] rated supply voltage | 220 V<br>110 V  |
| Network number of phases  | Three phase<br>Single phase   |
| Continuous stall current  | 3.77 A  |
| Continuous stall torque   | 5.73 N.M for LXM26D at 4.5 A, 220 V, single phase<br>5.73 N.M for LXM26D at 4.5 A, 220 V, three phase<br>5.73 N.M for LXM28... at 4.5 A, 220 V, single phase<br>5.73 N.M for LXM28... at 4.5 A, 220 V, three phase<br>5.73 N.m for LXM28... at 9 A, 110 V, single phase                                 |
| Continuous power          | 600 W   |
| Peak stall torque         | 17.19 N.M for LXM26D at 4.5 A, 220 V, single phase<br>17.19 N.M for LXM26D at 4.5 A, 220 V, three phase<br>17.19 N.M for LXM28... at 4.5 A, 220 V, single phase<br>17.19 N.M for LXM28... at 4.5 A, 220 V, three phase<br>17.19 N.m for LXM28... at 9 A, 110 V, single phase                            |
| Nominal output power      | 600 W for LXM26D at 4.5 A, 220 V, single phase<br>600 W for LXM26D at 4.5 A, 220 V, three phase<br>600 W for LXM28... at 4.5 A, 220 V, single phase<br>600 W for LXM28... at 4.5 A, 220 V, three phase<br>600 W for LXM28... at 9 A, 110 V, single phase  |
| Nominal torque            | 5.73 N.M for LXM26D at 4.5 A, 220 V, single phase<br>5.73 N.M for LXM26D at 4.5 A, 220 V, three phase<br>5.73 N.M for LXM28... at 4.5 A, 220 V, single phase<br>5.73 N.M for LXM28... at 4.5 A, 220 V, three phase<br>5.73 N.m for LXM28... at 9 A, 110 V, single phase                                 |
| Nominal speed             | 1000 rpm for LXM26D at 4.5 A, 220 V, single phase<br>1000 rpm for LXM26D at 4.5 A, 220 V, three phase<br>1000 rpm for LXM28... at 4.5 A, 220 V, single phase<br>1000 rpm for LXM28... at 4.5 A, 220 V, three phase<br>1000 rpm for LXM28... at 9 A, 110 V, single phase                                 |
| Maximum current Irms      | 13.44 A for LXM28... at 0.6 kW, 220 V<br>13.44 A for LXM28... at 0.6 kW, 110 V  |
| Maximum permanent current | 4.1 A   |
| Product compatibility     | LXM26D servo drive motor at 0.6 kW, 220 V, single phase<br>LXM26D servo drive motor at 0.6 kW, 220 V, three phase<br>LXM28... servo drive motor at 0.6 kW, 220 V, single phase<br>LXM28... servo drive motor at 0.6 kW, 220 V, three phase<br>LXM28... servo drive motor at 0.6 kW, 110 V, single phase |

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|                                       |                                      |
|---------------------------------------|--------------------------------------|
| Shaft end                             | Keyed                                |
| Shaft diameter                        | 22 mm                                |
| Shaft length                          | 45 mm                                |
| Key width                             | 8 mm                                 |
| Feedback type                         | 20 bits single turn absolute encoder |
| Holding brake                         | Without                              |
| Mounting support                      | Asian standard flange                |
| Motor flange size                     | 130 mm                               |
| Electrical connection                 | Connector MIL                        |
| Torque constant                       | 1.52 N.m/A at 20 °C                  |
| Back emf constant                     | 92 V/krpm at 20 °C                   |
| Rotor inertia                         | 6.63 kg.cm²                          |
| Stator resistance                     | 1.93 Ohm at 20 °C                    |
| Stator inductance                     | 24.9 mH at 20 °C                     |
| Stator electrical time constant       | 12.9 ms at 20 °C                     |
| Maximum radial force Fr               | 670 N at 1000 rpm                    |
| Maximum axial force Fa                | 200 N                                |
| Brake pull-in power                   | 19.7 W                               |
| Type of cooling                       | Natural convection                   |
| Length                                | 147 mm                               |
| Number of motor stacks                | 1                                    |
| Centring collar diameter              | 110 mm                               |
| Centring collar depth                 | 8 mm                                 |
| Number of mounting holes              | 4                                    |
| Mounting holes diameter               | 9.2 mm                               |
| Circle diameter of the mounting holes | 145 mm                               |
| Distance shaft shoulder-flange        | 8 mm                                 |
| Net weight                            | 7 kg                                 |

## Environment

|                                       |                                 |
|---------------------------------------|---------------------------------|
| IP degree of protection               | IP50 IM V3<br>IP65 IM B5, IM V1 |
| Ambient air temperature for operation | -20...40 °C                     |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 18.1 cm |
| Package 1 Width              | 23 cm   |
| Package 1 Length             | 36 cm   |
| Package 1 Weight             | 8070 g  |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <input checked="" type="checkbox"/> 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      | <input checked="" type="checkbox"/> China RoHS Declaration        |
| RoHS exemption information | <input checked="" type="checkbox"/> Yes                           |
| Environmental Disclosure   | <input checked="" type="checkbox"/> Product Environmental Profile |
| Circularity Profile        | <input checked="" type="checkbox"/> End Of Life Information       |

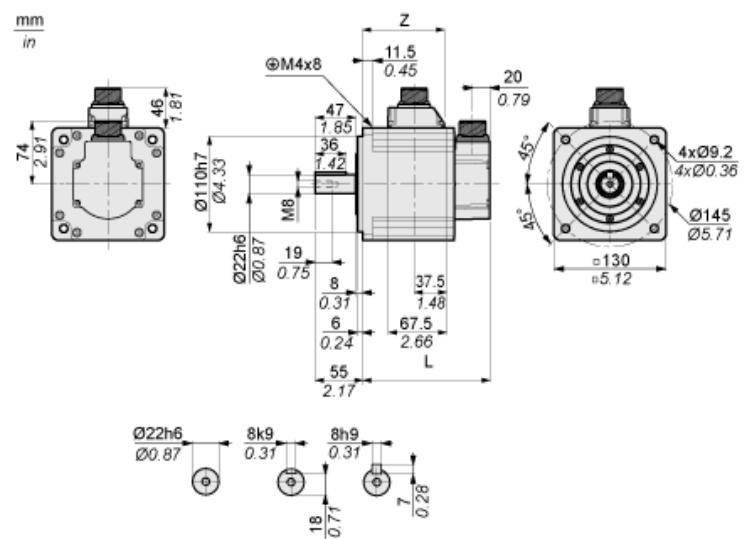
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|          |   |
|----------|---|
| WEEE     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| PVC free | Yes   |

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## Dimensions

## Dimensions of Motor



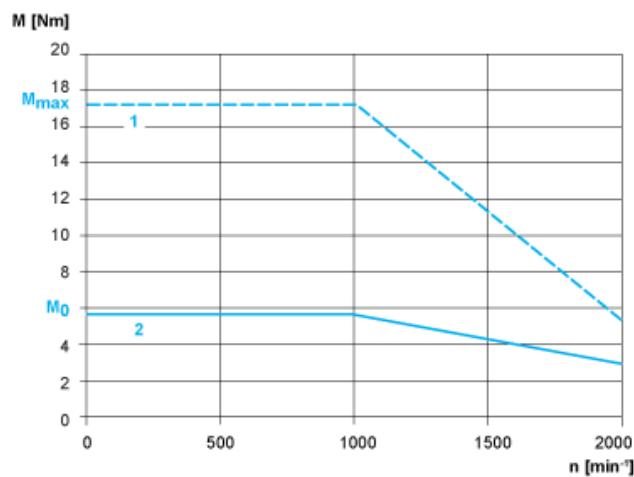
|                           | mm   | in.  |
|---------------------------|------|------|
| L (without holding brake) | 147  | 5.79 |
| L (with holding brake)    | 183  | 7.2  |
| Z                         | 94.5 | 3.72 |

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

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Servo Motor with LXM28AU02●●● Servo Drive



1 : Peak torque  
2 : Continuous torque