# Product data sheet
## Characteristics

# BCH2MM0613CA6C
servo motor BCH, Lexium 28, 130mm, 600W, 6.63kg.cm², with oil seal, with key, straight connection



## Main

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|---|---|
| Range of product | Lexium 28 |
| 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<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 |

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|---|---|
| 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 |
| 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 |
| Number of motor poles | 5.0 |
| Rotor inertia | 6.63 Kg.Cm² |
| Stator resistance | 1.93 Ohm at 20 °C |
| Stator inductance | 23.91 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 |
| Sizing reference | BCH2 |
| Network number of phases | 1 |
| Accuracy error [angular] | 0.044 ° |
| Temperature copper hot | 135 °C |
| Temperature magnet hot | 100 °C |
| Temperature magnet rt | 20 °C |
| Inertia | 0.0 Kg.Cm² of brake<br>6.62 Kg.Cm² of motor |

## Environment

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

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 30.000 Cm |
| Package 1 Width | 30.000 Cm |
| Package 1 Length | 40.000 Cm |
| Package 1 Weight | 8.296 Kg |

## Offer Sustainability

| | |
|---|---|
| Total lifecycle Carbon footprint | 3 323 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 46.2523183857 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 46 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 1.0412290359 |
| Carbon footprint of the distribution phase [A4] | 1 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.0514344888 |
| Carbon footprint of the installation phase [A5] | 0.1 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 3274.7156428171 |
| REACh free of SVHC | Yes |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 3 275 kg CO2 eq. |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| Sustainable packaging | No |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.8667379036 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.9 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 3323 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | No |
| REACh Regulation | Free of Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, w |
| PVC free | Yes |
| End of life manual availability | End Of Life Information |
| Take-back | No |

## Contractual warranty

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|---|---|
| Warranty (in months) | 18 |

Product Life Status : Commercialised