# Product data sheet
## Characteristics

# BCH2MR3013CF6C
servo motor BCH, Lexium 28, 180mm, 3000W, 54.1kg.cm², with oil seal, with key, brake, 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 |
| Network number of phases | Three phase |
| Continuous stall current | 16.49 A |
| Continuous stall torque | 19.1 N.M for LXM26D at 19.8 A, 220 V, three phase<br>19.1 N.M for LXM28 at 19.8 A, 220 V, three phase |
| Continuous power | 3000 W |
| Peak stall torque | 57.29 N.M for LXM26D at 19.8 A, 220 V, three phase<br>57.29 N.M for LXM28... at 19.8 A, 220 V, three phase |
| Nominal output power | 3000 W for LXM26D at 19.8 A, 220 V, three phase<br>3000 W for LXM28... at 19.8 A, 220 V, three phase |
| Nominal torque | 19.1 N.M for LXM26D at 19.8 A, 220 V, three phase<br>19.1 N.M for LXM28... at 19.8 A, 220 V, three phase |
| Nominal speed | 1500 rpm for LXM26D at 19.8 A, 220 V, three phase<br>1500 rpm for LXM28... at 19.8 A, 220 V, three phase |
| Maximum current Irms | 58.4 A for LXM26D at 3 kW, 220 V<br>58.4 A for LXM28... at 3 kW, 220 V |
| Maximum permanent current | 18.8 A |
| Product compatibility | LXM26D servo drive motor at 3 kW, 220 V, three phase<br>LXM28... servo drive motor at 3 kW, 220 V, three phase |
| Shaft end | Keyed |
| Shaft diameter | 35 Mm |
| Shaft length | 79 Mm |
| Key width | 10 Mm |
| Feedback type | 20 bits single turn absolute encoder |
| Holding brake | With |
| Holding torque | 48 N.M built-in |
| Mounting support | Asian standard flange |
| Motor flange size | 180 Mm |
| Electrical connection | Connector MIL |
| Torque constant | 1.16 N.M/A at 20 °C |
| Back emf constant | 70 V/Krpm at 20 °C |

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|---|---|
| Number of motor poles | 5.0 |
| Rotor inertia | 54.1 Kg.Cm² |
| Stator resistance | 0.234 Ohm at 20 °C |
| Stator inductance | 3.45 MH at 20 °C |
| Stator electrical time constant | 20.94 Ms at 20 °C |
| Maximum radial force Fr | 1200 N at 1500 rpm |
| Maximum axial force Fa | 497 N |
| Brake pull-in power | 49.6 W |
| Type of cooling | Natural convection |
| Length | 235 Mm |
| Number of motor stacks | 2 |
| Centring collar diameter | 114.3 Mm |
| Centring collar depth | 4 Mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 13.5 Mm |
| Circle diameter of the mounting holes | 200 Mm |
| Distance shaft shoulder-flange | 4 Mm |
| Net weight | 23 Kg |
| Sizing reference | BCH2 |
| Network number of phases | 3 |
| Accuracy error [angular] | 0.044 ° |
| Temperature copper hot | 135 °C |
| Temperature magnet hot | 100 °C |
| Temperature magnet rt | 20 °C |
| Inertia | 54.09 Kg.Cm² of brake<br>54.1 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 | 0…40 °C |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 24.5 Cm |
| Package 1 Width | 29 Cm |
| Package 1 Length | 58.5 Cm |
| Package 1 Weight | 24630 G |
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 4 |
| Package 2 Height | 50 Cm |
| Package 2 Width | 80 Cm |
| Package 2 Length | 60 Cm |
| Package 2 Weight | 107.42 Kg |

## Offer Sustainability

| | |
|---|---|
| Total lifecycle Carbon footprint | 11 216 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 141.1641390135 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 141 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 3.1778774664 |
| Carbon footprint of the distribution phase [A4] | 3 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.1569803543 |
| Carbon footprint of the installation phase [A5] | 0.2 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 11069.210475089 |
| REACh free of SVHC | Yes |

| | |
|---|---|
| Carbon footprint of the use phase [B2, B3, B4, B6] | 11 069 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] | 2.6453227466 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 3 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 11216 |
| 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