

## 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                                                                                                                                                                                                                              |
| Network number of phases  | Three phase<br>Single phase                                                                                                                                                                                                        |
| Continuous stall current  | 5.77 A                                                                                                                                                                                                                             |
| Continuous stall torque   | 4.77 N.M for LXM26D at 7 A, 220 V, single phase<br>4.77 N.M for LXM26D at 7 A, 220 V, three phase<br>4.77 N.M for LXM28... at 7 A, 220 V, single phase<br>4.77 N.m for LXM28... at 7 A, 220 V, three phase                         |
| Continuous power          | 1000 W                                                                                                                                                                                                                             |
| Peak stall torque         | 14.3 N.M for LXM26D at 7 A, 220 V, single phase<br>14.3 N.M for LXM26D at 7 A, 220 V, three phase<br>14.3 N.M for LXM28... at 7 A, 220 V, single phase<br>14.3 N.m for LXM28... at 7 A, 220 V, three phase                         |
| Nominal output power      | 1000 W for LXM26D at 7 A, 220 V, single phase<br>1000 W for LXM26D at 7 A, 220 V, three phase<br>1000 W for LXM28... at 7 A, 220 V, single phase<br>1000 W for LXM28... at 7 A, 220 V, three phase                                 |
| Nominal torque            | 4.77 N.M for LXM26D at 7 A, 220 V, single phase<br>4.77 N.M for LXM26D at 7 A, 220 V, three phase<br>4.77 N.M for LXM28... at 7 A, 220 V, single phase<br>4.77 N.m for LXM28... at 7 A, 220 V, three phase                         |
| Nominal speed             | 2000 rpm for LXM26D at 7 A, 220 V, single phase<br>2000 rpm for LXM26D at 7 A, 220 V, three phase<br>2000 rpm for LXM28... at 7 A, 220 V, single phase<br>2000 rpm for LXM28... at 7 A, 220 V, three phase                         |
| Maximum current Irms      | 19.64 A for LXM28... at 1 kW, 220 V                                                                                                                                                                                                |
| Maximum permanent current | 6.29 A                                                                                                                                                                                                                             |
| Product compatibility     | LXM26D servo drive motor at 1 kW, 220 V, single phase<br>LXM26D servo drive motor at 1 kW, 220 V, three phase<br>LXM28... servo drive motor at 1 kW, 220 V, single phase<br>LXM28... servo drive motor at 1 kW, 220 V, three phase |
| Shaft end                 | Keyed                                                                                                                                                                                                                              |
| Shaft diameter            | 22 mm                                                                                                                                                                                                                              |
| Shaft length              | 55 mm                                                                                                                                                                                                                              |
| Key width                 | 8 mm                                                                                                                                                                                                                               |
| Feedback type             | 20 bits single turn absolute encoder                                                                                                                                                                                               |
| Holding brake             | With                                                                                                                                                                                                                               |
| Holding torque            | 9.6 N.m built-in                                                                                                                                                                                                                   |
| Mounting support          | Asian standard flange                                                                                                                                                                                                              |

|                                       |                         |
|---------------------------------------|-------------------------|
| Motor flange size                     | 130 mm                  |
| Electrical connection                 | Connector MIL           |
| Torque constant                       | 0.83 N.m/A at 20 °C     |
| Back emf constant                     | 50 V/krpm at 20 °C      |
| Rotor inertia                         | 6.91 kg.cm <sup>2</sup> |
| Stator resistance                     | 0.62 Ohm at 20 °C       |
| Stator inductance                     | 7.4 mH at 20 °C         |
| Stator electrical time constant       | 11.94 ms at 20 °C       |
| Maximum radial force Fr               | 670 N at 2000 rpm       |
| Maximum axial force Fa                | 200 N                   |
| Brake pull-in power                   | 19.7 W                  |
| Type of cooling                       | Natural convection      |
| Length                                | 183 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                            | 8.2 kg                  |

## Environment

|                                       |                                 |
|---------------------------------------|---------------------------------|
| IP degree of protection               | IP50 IM V3<br>IP65 IM B5, IM V1 |
| Ambient air temperature for operation | 0...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              | 23.0 cm |
| Package 1 Length             | 36.0 cm |
| Package 1 Weight             | 9.36 kg |

## Offer Sustainability

|                                                       |                                                                                                                             |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Packaging without single use plastic                  | No                                                                                                                          |
| Packaging made with recycled cardboard                | No                                                                                                                          |
| REACH Regulation                                      | <a href="#">REACH Declaration</a>                                                                                           |
| REACH free of SVHC                                    | Yes                                                                                                                         |
| EU RoHS Directive                                     | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                              |
| Toxic heavy metal free                                | Yes                                                                                                                         |
| 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>                                                                               |
| Circularity Profile                                   | <a href="#">End Of Life Information</a>                                                                                     |
| WEEE                                                  | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| PVC free                                              | Yes                                                                                                                         |
| Take-back                                             | No                                                                                                                          |
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 4174                                                                                                                        |