

Product datasheet

Specifications



servo motor BCH16, Lexium 16D,
60mm, shaft 11mm, 200W, Heavy
inertia, 3000rpm, 23bit

BCH16HC02332A5C2

Main

| | |
|---------------------------|----------------|
| Range compatibility | Easy Lexium 16 |
| Device short name | BCH16 |
| Product or component type | Servo motor |

Complementary

| | |
|---------------------------|---|
| Maximum mechanical speed | 5000 rpm |
| [Us] rated supply voltage | 220 V |
| Network number of phases | 3 phases |
| Continuous stall current | 1.6 A |
| Continuous stall torque | 0.64 N.m for LXM16D at 2.59 A, 220 V, single phase |
| Continuous power | 200 W |
| Peak stall torque | 1.91 N.m for LXM16D at 2.59 A, 220 V, single phase |
| Nominal output power | 200 W for LXM16D at 2.59 A, 220 V, single phase |
| Nominal torque | 0.64 N.m for LXM16D at 2.59 A, 220 V, single phase |
| Nominal speed | 3000 rpm for LXM16D at 2.59 A, 220 V, single phase |
| Maximum current Irms | 4.65 A for LXM16D at 0.2 kW, 220 V |
| Maximum permanent current | 4.8 A |
| Product compatibility | LXM16D motion servo motors motor at 0.2 kW, 220 V, single phase |
| Shaft end | Parallel key |
| Second shaft | Without second shaft end |
| Shaft diameter | 11 mm |
| Shaft length | 20 mm |
| Key width | 4 mm |
| Feedback type | 23 bit high resolution encoder |
| Holding brake | Without |
| Holding torque | 1.5 N.m |
| Mounting support | Asian standard flange |
| Motor flange size | 60 mm |
| Electrical connection | Free lead |
| Torque constant | 0.46 N.m/A at 20 °C |
| Back emf constant | 28.0 V/krpm at 20 °C |

| | |
|--|-------------------------|
| Rotor inertia | 0.42 kg.cm ² |
| Stator resistance | 6.4 Ohm at 20 °C |
| Stator inductance | 18 mH at 20 °C |
| Stator electrical time constant | 2.81 ms at 20 °C |
| Maximum radial force Fr | 197.96 N at 3000 rpm |
| Maximum axial force Fa | 61.74 N |
| Type of cooling | Natural convection |
| Length | 106.5 mm |
| Centring collar diameter | 50 mm |
| Centring collar depth | 3 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 5.5 mm |
| Circle diameter of the mounting holes | 70 mm |
| Distance shaft shoulder-flange | 25 mm |
| Width | 60 mm |
| Height | 73 mm |
| Depth | 106.5 mm |
| Net weight | 1.1 kg |

Environment

| | |
|--|---------------------------------|
| IP degree of protection | IP65 IM B5, IM V1 IP65 IM V3 |
| 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 | 13.2 cm |
| Package 1 Width | 11 cm |
| Package 1 Length | 25.8 cm |
| Package 1 Weight | 1.3 kg |

Contractual warranty

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



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

| | |
|--|---|
| Total lifecycle Carbon footprint | 1 654 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Carbon footprint of the manufacturing phase [A1 to A3] | 20 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.2 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 1 634 kg CO2 eq. |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.1 kg CO2 eq. |

Use Better



Materials and Substances

| | |
|--------------------------------------|-----------------------------------|
| Packaging without single use plastic | Yes |
| EU RoHS Directive | Compliant with Exemptions |
| REACH Regulation | REACH Declaration |

Use Longer



Lifetime extension

| | |
|--------|----|
| Repair | No |
|--------|----|

Use Again



Repack and remanufacture

| | |
|---------------------------------|---|
| End of life manual availability | End of Life Information |
| Take-back | No |
| WEEE Label |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |