Product datasheet Characteristics

BCH1803N12A1C

servo motor BCH - no oil seal - w key - 20-bit encoder - w/o brake-straight con



Main

| Range compatibility | Lexium 23 Plus | |
|---------------------------|----------------|--|
| Product or component type | Servo motor | |
| Device short name | BCH | |

Complementary

| Maximum mechanical speed | 3000 rpm |
|---------------------------------------|-----------------------------|
| [Us] rated supply voltage | 220 V |
| Network number of phases | Three phase |
| Continuous power | 3.5 kW |
| Shaft end | Keyed |
| Second shaft | Without second shaft end |
| Shaft length | 73 mm |
| Key width | 10 mm |
| Feedback type | 20 bits incremental encoder |
| Holding brake | Without |
| Mounting support | Asian standard flange |
| Motor flange size | 180 mm |
| Stator resistance | 0.052 Ohm at 20 °C |
| Stator inductance | 2.76 mH at 20 °C |
| Stator electrical time constant | 26.4 ms at 20 °C |
| Brake pull-in power | 20.4 W |
| Type of cooling | Natural convection |
| Number of motor stacks | 3 |
| 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 | 73 mm |
| Product weight | 13.8 kg |

Environment

| IP degree of protection | IP40 |
|---------------------------------------|--------|
| Ambient air temperature for operation | 040 °C |

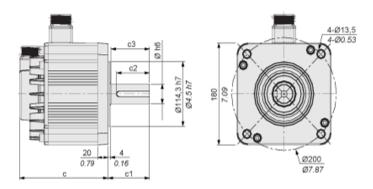
Contractual warranty

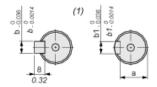
| Warranty | 18 months |
|----------|-----------|

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Dimensions







(1) Shaft end, keyed slot (optional)

Dimensions in mm

| Ø | а | b | b1 | c (without holding brake) | c (with holding brake) | | c2 | c3 |
|----|----|----|----|---------------------------|------------------------|----|----|----|
| 35 | 30 | 10 | 10 | 202.1 | 235.3 | 79 | 63 | 73 |

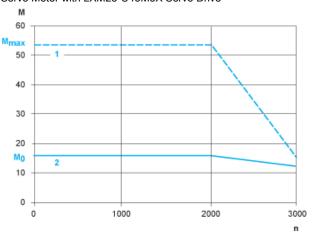
Dimensions in in.

| Ø | а | b | b1 | c (without holding brake) | c (with holding brake) | c1 | c2 | с3 |
|------|------|------|------|---------------------------|------------------------|------|------|------|
| 1.38 | 1.18 | 0.39 | 0.39 | 7.96 | 9.26 | 3.11 | 2.48 | 2.87 |

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Torque/Speed Curves with 220 V Three Phase Supply Voltage

Servo Motor with LXM23•U45M3X Servo Drive



M: Torque in Nm
n: Speed in rpm
1: Peak torque
2: Continuous torque