



## Main

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

## Complementary

|                                 |                             |
|---------------------------------|-----------------------------|
| Maximum mechanical speed        | 5000 rpm                    |
| [Us] rated supply voltage       | 220 V                       |
| Network number of phases        | Single phase                |
| Continuous stall current        | 2.6 A                       |
| Continuous power                | 0.4 kW                      |
| Shaft end                       | Keyed                       |
| Second shaft                    | Without second shaft end    |
| Shaft diameter                  | 14 mm                       |
| Shaft length                    | 24 mm                       |
| Key width                       | 5 mm                        |
| Feedback type                   | 20 bits incremental encoder |
| Holding brake                   | With                        |
| Holding torque                  | 1.3 N.m                     |
| Mounting support                | Asian standard flange       |
| Motor flange size               | 60 mm                       |
| Torque constant                 | 0.49 N.m/A                  |
| Back emf constant               | 17.4 V/krpm at 20 °C        |
| Rotor inertia                   | 0.3 kg.cm <sup>2</sup>      |
| Stator resistance               | 3.1 Ohm at 20 °C            |
| Stator inductance               | 13.42 mH at 20 °C           |
| Stator electrical time constant | 4.3 ms at 20 °C             |
| Maximum radial force Fr         | 196 N                       |
| Maximum axial force Fa          | 68 N                        |
| Brake pull-in power             | 6.5 W                       |
| Type of cooling                 | Natural convection          |
| Length                          | 166.8 mm                    |

|                                       |        |
|---------------------------------------|--------|
| Number of motor stacks                | 2      |
| 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        | 24 mm  |
| Product weight                        | 2 kg   |

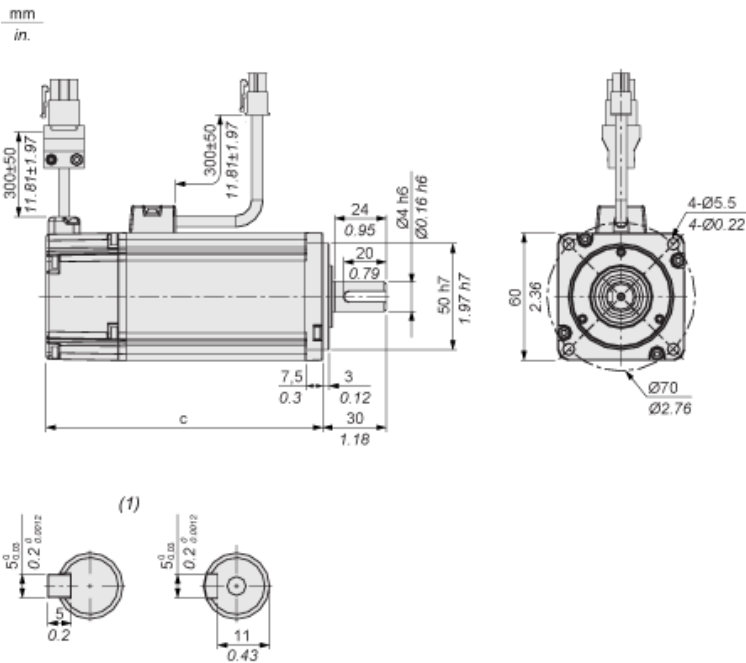
## Environment

|                                       |           |
|---------------------------------------|-----------|
| IP degree of protection               | IP65      |
| Ambient air temperature for operation | 0...40 °C |

## Contractual warranty

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

Dimensions



(1) Shaft end, keyed slot (optional)

Dimensions in mm

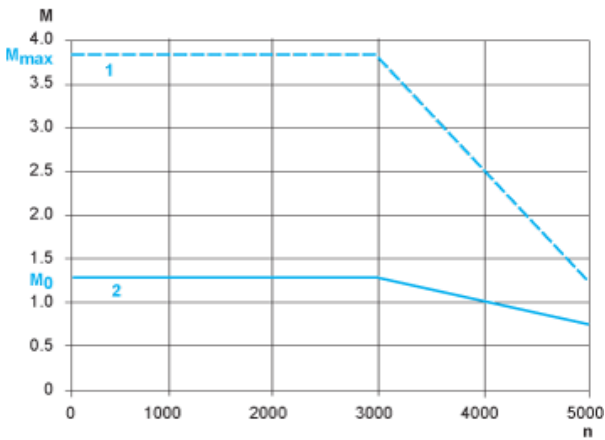
| c (without holding brake) | c (with holding brake) |
|---------------------------|------------------------|
| 130.7                     | 166.8                  |

Dimensions in in.

| c (without holding brake) | c (with holding brake) |
|---------------------------|------------------------|
| 5.14                      | 6.57                   |

Torque/Speed Curves with 220 V Single Phase Supply Voltage

Servo Motor with LXM23•U04M3X Servo Drive



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