



## 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 stall current        | 32.5 A                      |
| Continuous power                | 3.5 kW                      |
| Shaft end                       | Keyed                       |
| Second shaft                    | Without second shaft end    |
| Shaft length                    | 73 mm                       |
| Feedback type                   | 20 bits incremental encoder |
| Holding brake                   | Without                     |
| Mounting support                | Asian standard flange       |
| Motor flange size               | 180 mm                      |
| Torque constant                 | 0.88 N.m/A                  |
| Back emf constant               | 32 V/krpm at 20 °C          |
| Rotor inertia                   | 77.75 kg.cm <sup>2</sup>    |
| Stator resistance               | 0.032 Ohm at 20 °C          |
| Stator inductance               | 0.89 mH at 20 °C            |
| Stator electrical time constant | 27.8 ms at 20 °C            |
| Maximum radial force Fr         | 1470 N                      |
| Maximum axial force Fa          | 490 N                       |
| 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                        | 23.8 kg |

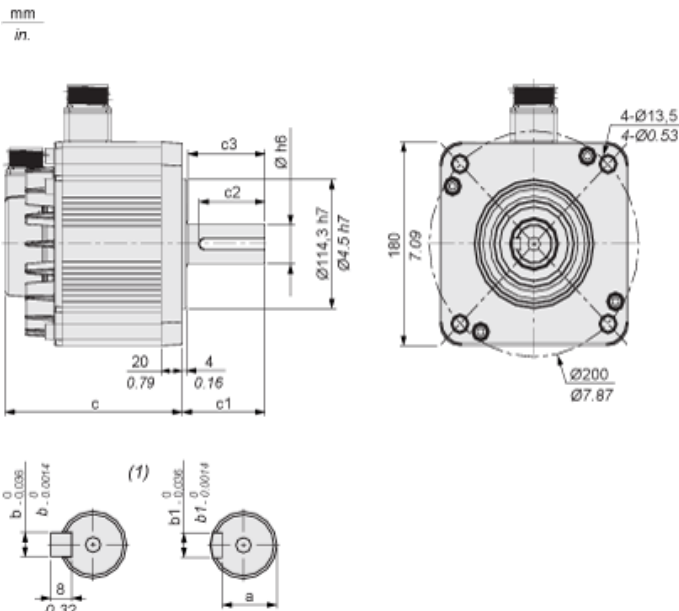
## Environment

|                                       |           |
|---------------------------------------|-----------|
| 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

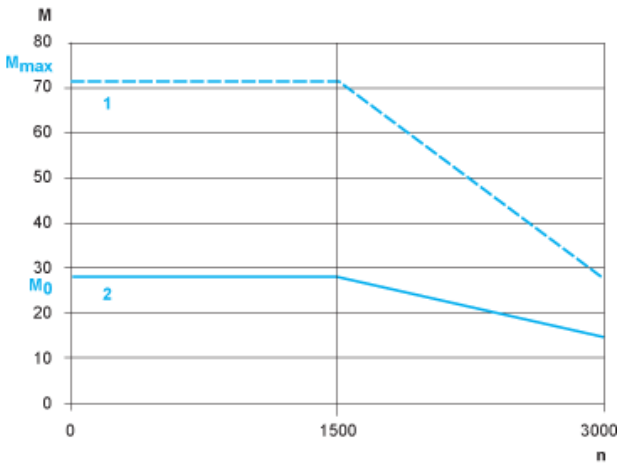
| $\varnothing$ | a  | b  | b1 | c (without holding brake) | c (with holding brake) | c1 | c2 | c3 |
|---------------|----|----|----|---------------------------|------------------------|----|----|----|
| 35            | 30 | 10 | 10 | 235.3                     | 279.3                  | 79 | 63 | 73 |

Dimensions in in.

| $\varnothing$ | a    | b    | b1   | c (without holding brake) | c (with holding brake) | c1   | c2   | c3   |
|---------------|------|------|------|---------------------------|------------------------|------|------|------|
| 1.38          | 1.18 | 0.39 | 0.39 | 9.26                      | 11.00                  | 3.11 | 2.48 | 2.87 |

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