



## Main

Product or component type	Servo motor
Device short name	BCH

## Complementary

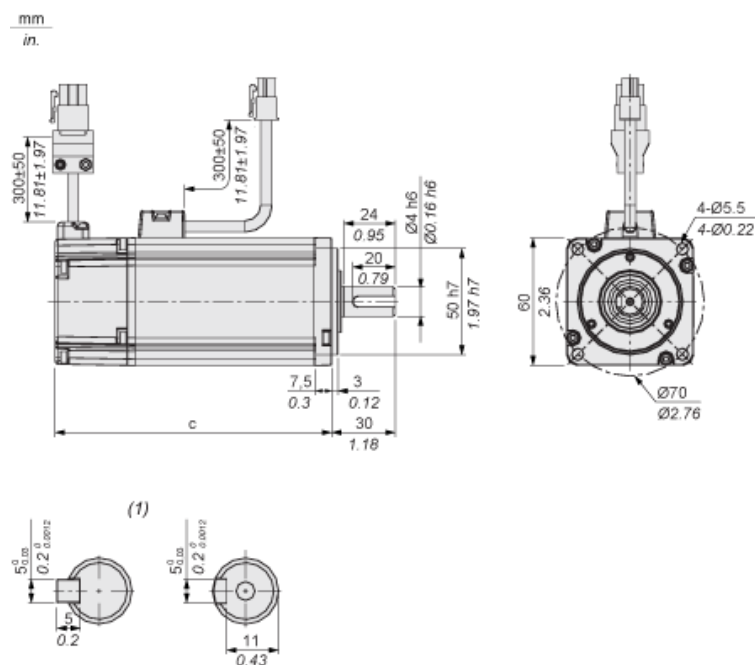
Range compatibility	Lexium 23 Plus
Maximum mechanical speed	5000
[Us] rated supply voltage	220 V
Network number of phases	Single phase
Continuous stall current	1.55 A
Continuous stall torque	0.64 N.m for LXM23 at 0.2 kW 220 V single phase
Continuous power	0.2 kW
Peak stall torque	1.92 N.m for LXM23 at 0.2 kW 220 V single phase
Nominal output power	200 W for LXM23 at 0.2 kW 220 V single phase
Nominal torque	0.64 N.m for LXM23 at 0.2 kW 220 V single phase
Nominal speed	3000 rpm for LXM23 at 220 V single phase
Maximum current Irms	4.65 A for LXM23 at 0.2 kW 220 V single phase
Product compatibility	Servo drive for LXM23 at 0.2 kW 220 V single phase Servo drive for LXM23 at 0.2 kW 220 V three phase
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	Without
Mounting support	Asian standard flange
Motor flange size	60 mm
Electrical connection	Flying leads
Torque constant	0.41 N.m/A
Back emf constant	17.4 V/krpm at 20 °C
Rotor inertia	0.177 kg.cm <sup>2</sup>
Stator resistance	5.58 Ohm at 20 °C
Stator inductance	24.14 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	105.5 mm

Number of motor stacks	1
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	1.2 kg

## Environment

IP degree of protection	IP40
Ambient air temperature for operation	0...40 °C

## Dimensions



(1) Shaft end, keyed slot (optional)

Dimensions in mm

c (without holding brake)	c (with holding brake)
105.5	141.6

Dimensions in in.

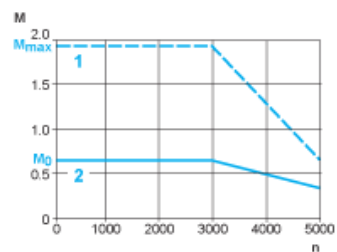
c (without holding brake)	c (with holding brake)
4.15	5.57

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Torque/Speed Curves with 220 V Single Phase Supply Voltage

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Servo Motor with LXM23•U02M3X Servo Drive



M : Torque in Nm

n : Speed in rpm

1 : Peak torque

2 : Continuous torque