



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	7.3 A
Continuous power	1 kW
Shaft end	Keyed
Second shaft	Without second shaft end
Shaft diameter	22 mm
Shaft length	37 mm
Key width	8 mm
Feedback type	20 bits incremental encoder
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	100 mm
Torque constant	0.43 N.m/A
Back emf constant	16.8 V/krpm at 20 °C
Rotor inertia	2.65 kg.cm ²
Stator resistance	0.4 Ohm at 20 °C
Stator inductance	3.62 mH at 20 °C
Stator electrical time constant	9.3 ms at 20 °C
Maximum radial force Fr	490 N
Maximum axial force Fa	98 N
Brake pull-in power	19.4 W
Type of cooling	Natural convection
Length	153.5 mm
Number of motor stacks	1

Centring collar diameter	95 mm
Centring collar depth	5 mm
Number of mounting holes	4
Mounting holes diameter	9 mm
Circle diameter of the mounting holes	115 mm
Distance shaft shoulder-flange	37 mm
Product weight	4.3 kg

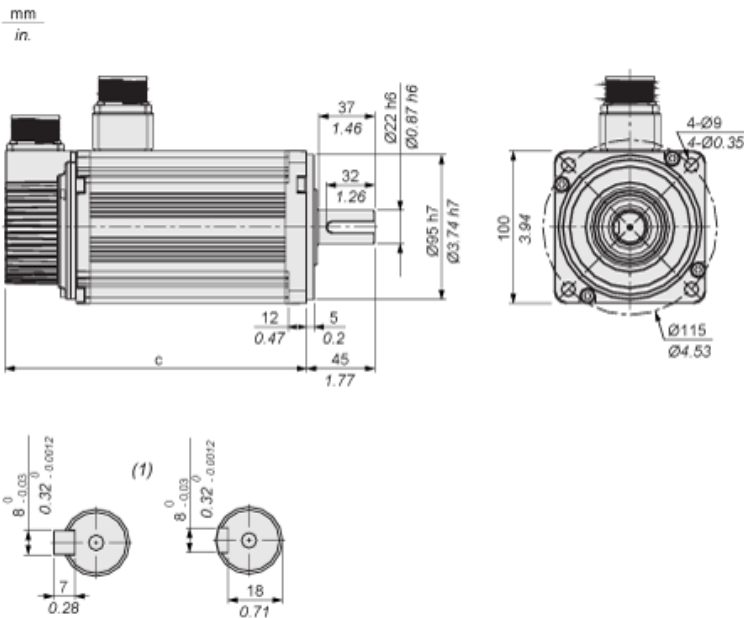
Environment

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

Contractual warranty

Warranty	18 months
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Dimensions



(1) Shaft end, keyed slot (optional)
Dimensions in mm

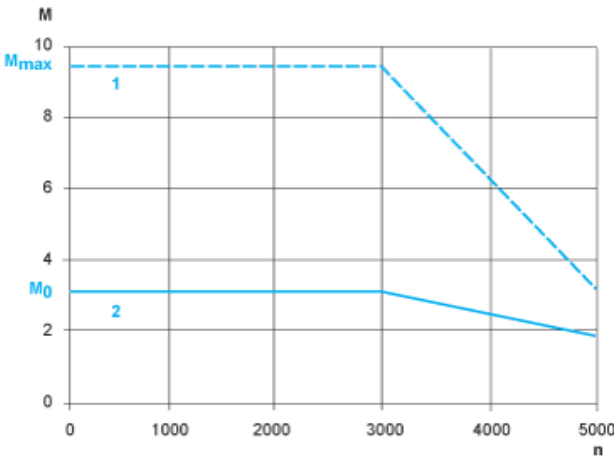
c (without holding brake)	c (with holding brake)
153.5	192.5

Dimensions in in.

c (without holding brake)	c (with holding brake)
6.04	7.58

Torque/Speed Curves with 220 V Single Phase Supply Voltage

Servo Motor with LXM23•U10M3X Servo Drive



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