

# Product datasheet

Specifications



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

BCH0602O12A1C

⚠ Discontinued - Service only

⚠ Discontinued on: 31-Dec-2023

⚠ End-of-service on: 31-Dec-2023

## Main

Range Compatibility	Lexium 23 Plus
Device Short Name	BCH
Product Or Component Type	Servo motor

## 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	Without
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	0.277 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	130.7 mm

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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
Net Weight	1.6 kg

## Environment

Ip Degree Of Protection	IP40
Ambient Air Temperature For Operation	0...40 °C

## Packing Units

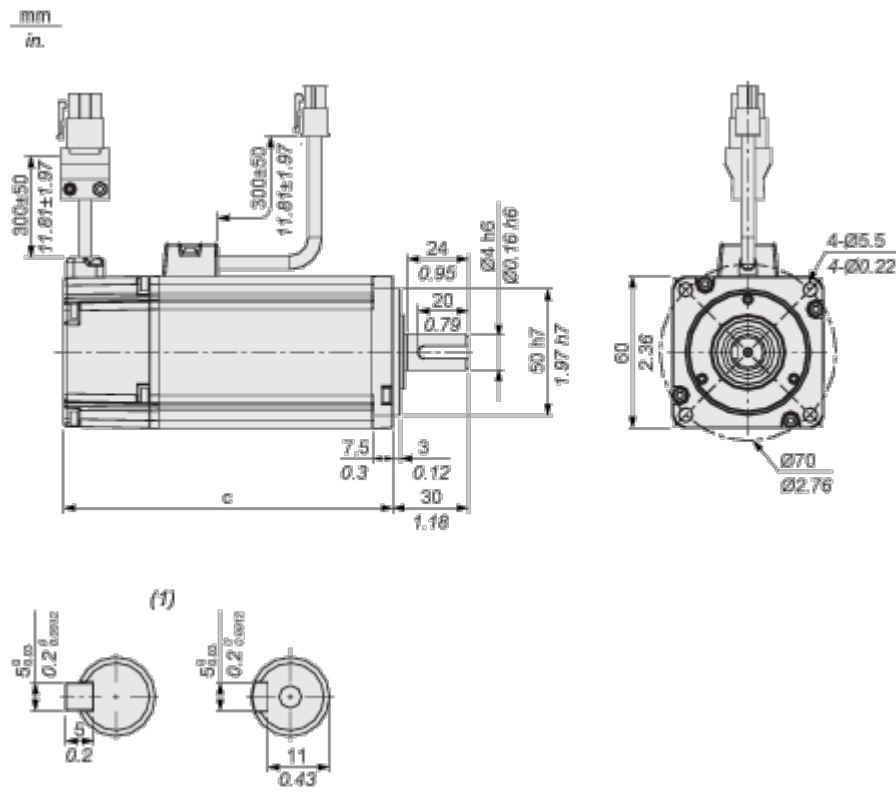
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	19.0 cm
Package 1 Width	15.0 cm
Package 1 Length	26.0 cm
Package 1 Weight	1.93 kg

## Contractual warranty

Warranty	18 months
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Dimensions Drawings

Dimensions



(1) Shaft end, keyed slot (optional)

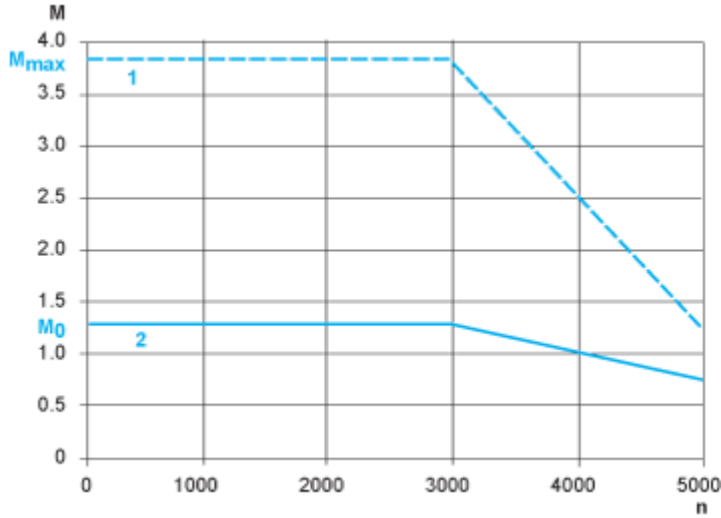
Dimensions in mm	
c (without holding brake)	c (with holding brake)
130.7	166.8

Dimensions in in.	
c (without holding brake)	c (with holding brake)
5.14	6.57

Performance Curves

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