

Product datasheet

Specifications



servo motor BCH, w oil seal,
smooth, 20-bit encoder, w/o brake-
straight con

BCH1002O22A1C

⚠ Discontinued - Service only

⚠ Discontinued on: 31 Dec 2018

⚠ End-of-service on: 31 Dec 2023

EAN Code: 3606480178238

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	Three phase
Continuous stall current	12.05 A
Continuous power	2 kW
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	22 mm
Shaft length	37 mm
Feedback type	20 bits incremental encoder
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	100 mm
Torque constant	0.53 N.m/A
Back emf constant	19.2 V/krpm at 20 °C
Rotor inertia	4.45 kg.cm²
Stator resistance	0.26 Ohm at 20 °C
Stator inductance	3 mH at 20 °C
Stator electrical time constant	11.4 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	199 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	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
Net weight	6.2 kg

Environment

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

Packing Units

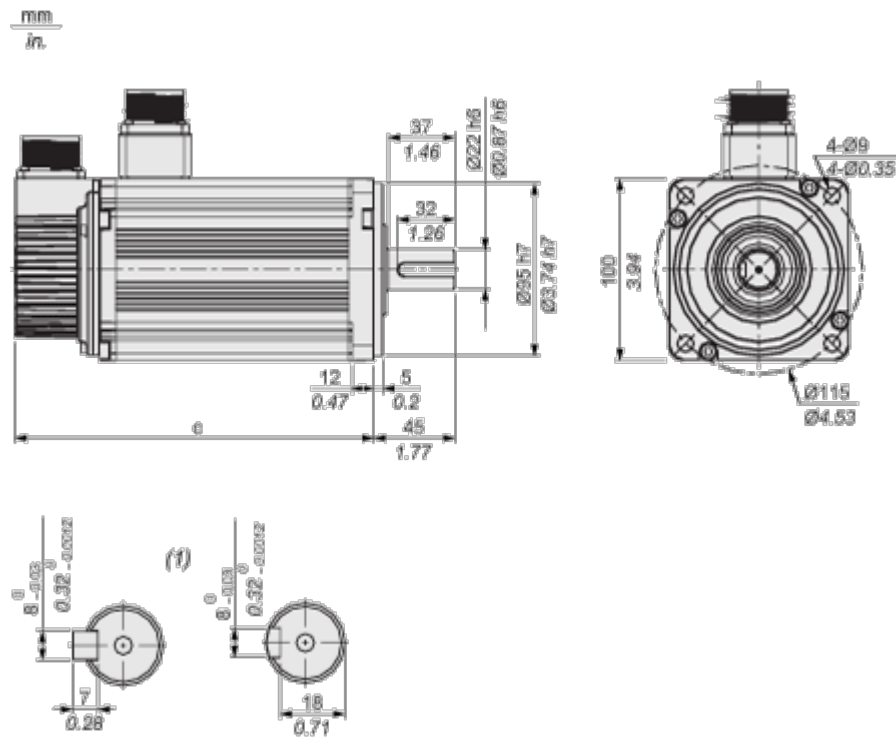
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	19.6 cm
Package 1 Width	27.6 cm
Package 1 Length	35.0 cm
Package 1 Weight	6.5 kg
Unit Type of Package 2	CAR
Number of Units in Package 2	2
Package 2 Height	19.6 cm
Package 2 Width	27.6 cm
Package 2 Length	35.0 cm
Package 2 Weight	13.0 kg

Contractual warranty

Warranty	18 months
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Dimensions Drawings

Dimensions



(1) Shaft end, keyed slot (optional)

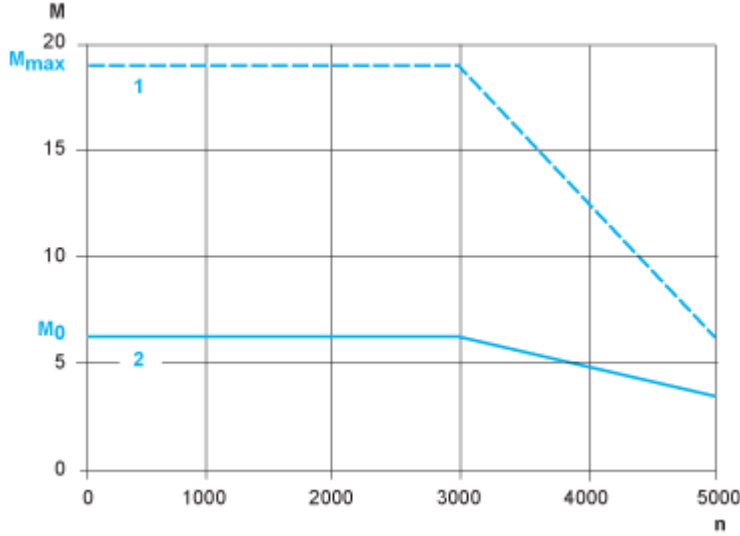
Dimensions in mm	
c (without holding brake)	c (with holding brake)
199	226

Dimensions in in.	
c (without holding brake)	c (with holding brake)
7.83	8.90

Performance Curves

Torque/Speed Curves with 220 V Three Phase Supply Voltage

Servo Motor with LXM23•U20M3X Servo Drive



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