

Product datasheet

Specifications



servo motor BCH, w oil seal, w key,
20-bit encoder, w brake-straight con

BCH1302M32F1C

⚠ Discontinued on: Dec 31, 2018 AD

⚠ End-of-service on: Dec 31, 2023 AD

⚠ Discontinued - Service only

Main

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

Complementary

Maximum Mechanical Speed	2000 rpm
[Us] Rated Supply Voltage	220 V
Network Number Of Phases	Single phase
Continuous Stall Current	4.8 A
Continuous Power	0.6 kW
Shaft End	Keyed
Second Shaft	Without second shaft end
Shaft Diameter	22 mm
Shaft Length	47 mm
Key Width	8 mm
Feedback Type	20 bits incremental encoder
Holding Brake	With
Holding Torque	10 N.m
Mounting Support	Asian standard flange
Motor Flange Size	130 mm
Torque Constant	1.19 N.m/A
Back Emf Constant	43.8 V/krpm at 20 °C
Rotor Inertia	9.14 kg.cm²
Stator Resistance	1.64 Ohm at 20 °C
Stator Inductance	22.24 mH at 20 °C
Stator Electrical Time Constant	13.5 ms at 20 °C
Maximum Radial Force Fr	490 N
Maximum Axial Force Fa	98 N
Brake Pull-In Power	19 W
Type Of Cooling	Natural convection

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

Length	183.5 mm
Number Of Motor Stacks	2
Centring Collar Diameter	110 mm
Centring Collar Depth	6 mm
Number Of Mounting Holes	4
Mounting Holes Diameter	9 mm
Circle Diameter Of The Mounting Holes	145 mm
Distance Shaft Shoulder-Flange	47 mm
Net Weight	8.4 kg

Environment

Ip Degree Of Protection	IP65
Ambient Air Temperature For Operation	0...40 °C

Packing Units

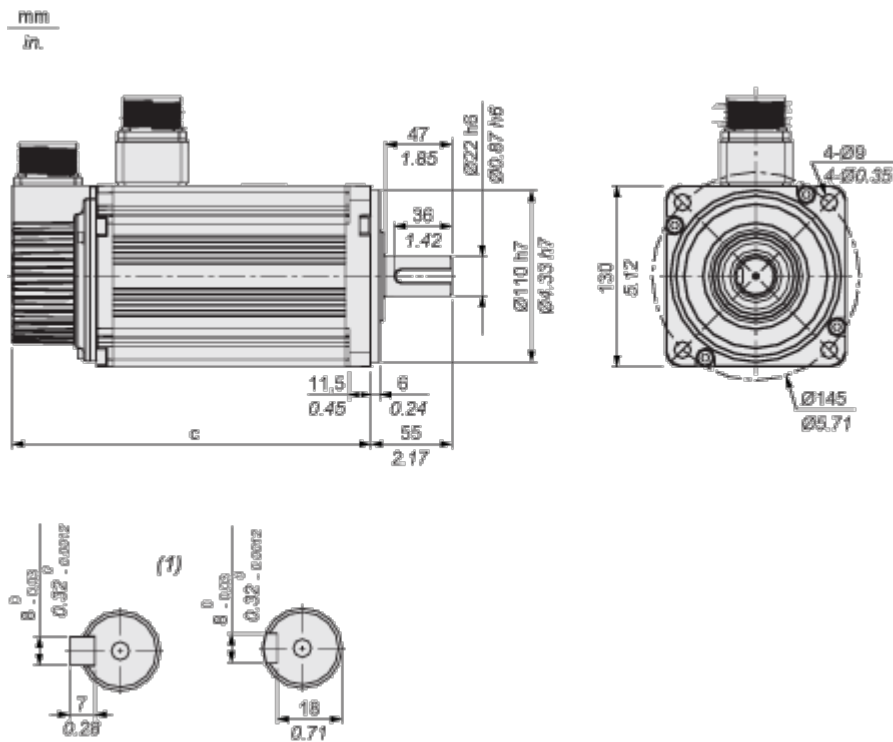
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	23.8 cm
Package 1 Width	29.2 cm
Package 1 Length	36.6 cm
Package 1 Weight	9.2 kg

Contractual warranty

Warranty	18 months
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Dimensions Drawings

Dimensions



(1) Shaft end, keyed slot (optional)

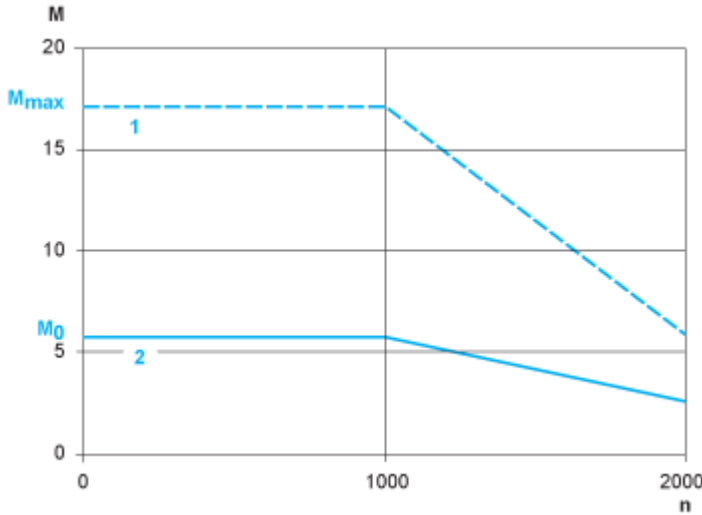
Dimensions in mm	
c (without holding brake)	c (with holding brake)
147.5	183.5

Dimensions in in.	
c (without holding brake)	c (with holding brake)
5.81	7.22

Performance Curves

Torque/Speed Curves with 220 V Single Phase Supply Voltage

Servo Motor with LXM23•U07M3X Servo Drive



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