Product datasheet

Specifications

Discontinued

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

BCH1303N12A1C

Discontinued on: 31-Dec-2018

End-of-service on: 30-Jun-2022

Main

Range compatibility	Lexium 23 Plus
Device short name	BCH
Product or component type	Servo motor

Complementary

Maximum mechanical speed	3000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Single phase
Continuous stall current	8.3 A
Continuous power	1.5 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	Without
Mounting support	Asian standard flange
Motor flange size	130 mm
Torque constant	0.87 N.m/A
Back emf constant	31.8 V/krpm at 20 °C
Rotor inertia	11.18 kg.cm²
Stator resistance	0.52 Ohm at 20 °C
Stator inductance	8.02 mH at 20 °C
Stator electrical time constant	15.31 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
Length	167.5 mm

Number of motor stacks	3
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
Product weight	7.5 kg

Environment

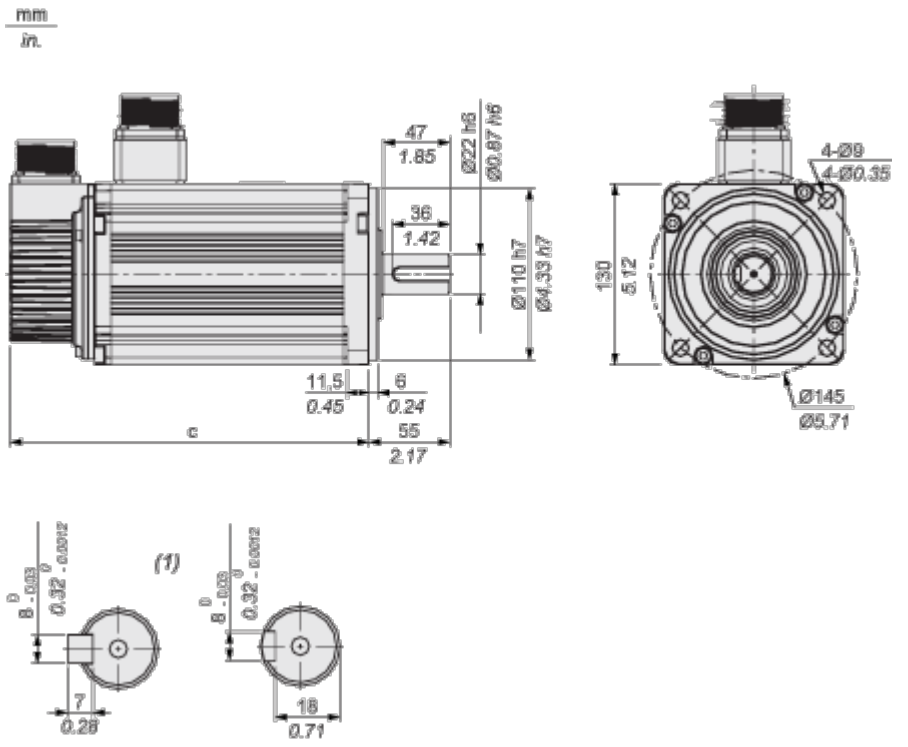
IP degree of protection	IP40
Ambient air temperature for operation	0…40 °C

Contractual warranty

Warranty	18 months

Dimensions Drawings

Dimensions



(1) Shaft end, keyed slot (optional)

Dimensions in mm

c (without holding brake)	c (with holding brake)
167.5	202

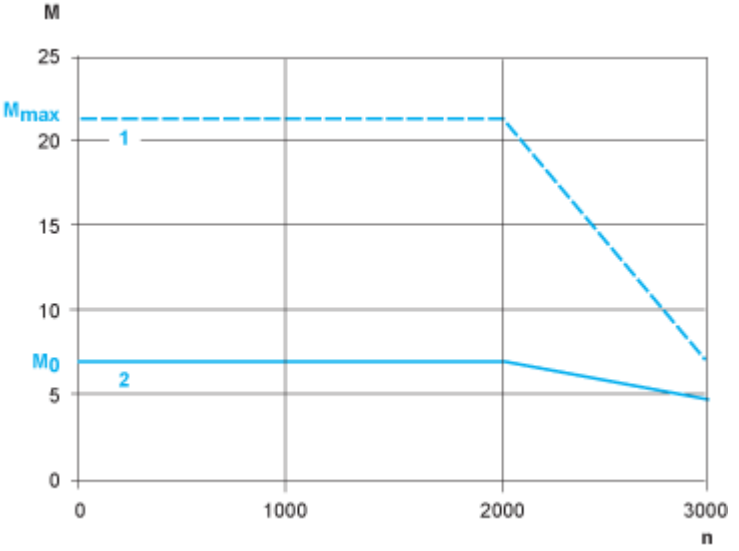
Dimensions in in.

c (without holding brake)	c (with holding brake)
6.59	7.95

Performance Curves

Torque/Speed Curves with 220 V Single Phase Supply Voltage

Servo Motor with LXM23•U15M3X Servo Drive



M : Torque in Nm

n : Speed in rpm

1 : Peak torque

2 : Continuous torque