Product datasheet
Characteristics

BCH1802N32F1C
servo motor BCH - w oil seal - w key - 20-bit encoder - w brake-straight con

Main

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

Complementary

Maximum mechanical speed	3000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Three phase
Continuous stall current	16.1 A
Continuous power	3 kW
Shaft end	Keyed
Second shaft	Without second shaft end
Shaft diameter	35 mm
Shaft length	73 mm
Key width	10 mm
Feedback type	20 bits incremental encoder
Holding brake	With
Holding torque	25 N.m
Mounting support	Asian standard flange
Motor flange size	180 mm
Torque constant	0.89 N.m/A
Back emf constant	32 V/krpm at 20 °C
Rotor inertia	57.06 kg.cm²
Stator resistance	0.104 Ohm at 20 °C
Stator inductance	2.76 mH at 20 °C
Stator electrical time constant	26.39 ms at 20 °C
Maximum radial force Fr	1470 N
Maximum axial force Fa	490 N
Brake pull-in power	20.4 W
Type of cooling	Natural convection
Length	235.3 mm

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Number of motor stacks	2
Centring collar diameter	114.3 mm
Centring collar depth	4 mm
Number of mounting holes	4
Mounting holes diameter	13.5 mm
Circle diameter of the mounting holes	200 mm
Distance shaft shoulder-flange	73 mm
Product weight	22.5 kg

Environment

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

Contractual warranty

Warranty	18 months

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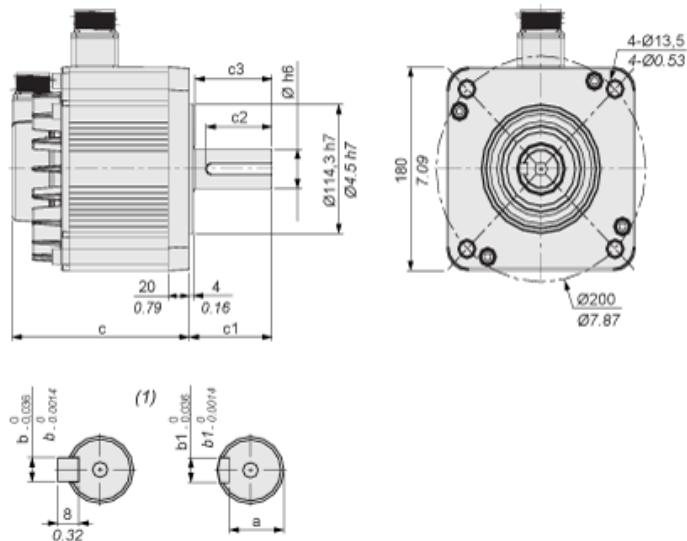
Dimensions

(1)   Shaft end, keyed slot (optional)

Dimensions in mm

Ø	a	b	b1	c (without holding brake)	c (with holding brake)	c1	c2	c3
35	30	10	10	202.1	235.3	79	63	73

Dimensions in in.

Ø	a	b	b1	c (without holding brake)	c (with holding brake)	c1	c2	c3
1.38	1.18	0.39	0.39	7.96	9.26	3.11	2.48	2.87

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Torque/Speed Curves with 220 V Three Phase Supply Voltage

Servo Motor with LXM23•U30M3X Servo Drive
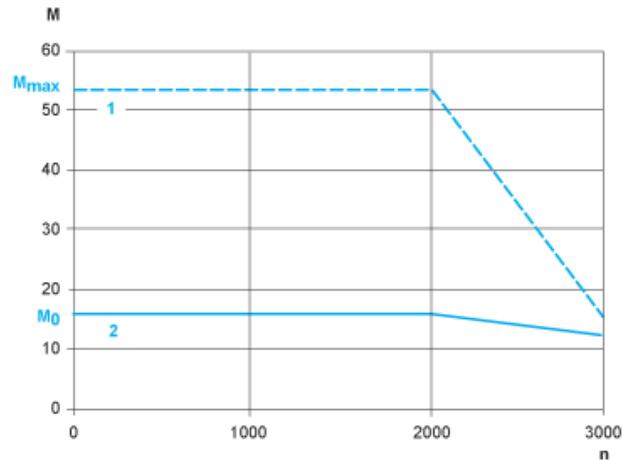
M :   Torque in Nm
n :   Speed in rpm
1 :   Peak torque
2 :   Continuous torque

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