Product datasheet

Specifications



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

BCH1302N12A1C

1 To be discontinued on: 31 December 2023

① Discontinued

Main

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

Complementary	
Maximum mechanical speed	3000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Single phase
Continuous stall current	5.6 A
Continuous power	1 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	0.85 N.m/A
Back emf constant	31.9 V/krpm at 20 °C
Rotor inertia	8.41 kg.cm²
Stator resistance	0.94 Ohm at 20 °C
Stator inductance	11.98 mH at 20 °C
Stator electrical time constant	12.88 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	147.5 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	7 kg

Environment

IP degree of protection	IP40	
Ambient air temperature for operation	040 °C	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	24.5 cm
Package 1 Width	29.0 cm
Package 1 Length	36.5 cm
Package 1 Weight	7.582 kg
Unit Type of Package 2	S06
Number of Units in Package 2	4
Package 2 Height	73.5 cm
Package 2 Width	60.0 cm
Package 2 Length	80.0 cm
Package 2 Weight	43.328 kg

Contractual warranty

Warranty	18 months

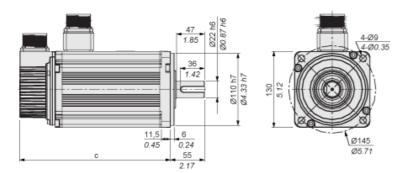
Product datasheet

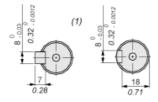
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Dimensions Drawings

Dimensions

mm





(1) Shaft end, keyed slot (optional)

Dimensions in mm

c (without holding brake)	c (with holding brake)
147.5	183.5

Dimensions in in.

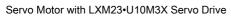
-	c (without holding brake)	c (with holding brake)
	5.81	7.22

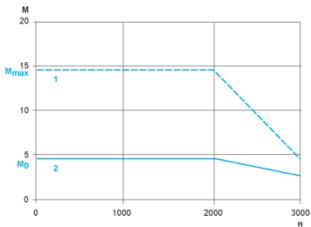
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Performance Curves

Torque/Speed Curves with 220 V Single Phase Supply Voltage





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

Recommended replacement(s)