Product data sheet
Characteristics

BCH1001O12F1C
servo motor BCH, no oil seal, w key, 20-bit encoder, w brake-straight con



Commercial status
End of Commercialisation : DEC 31, 2018

⚠ End of Commercialisation

Main

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

Complementary

Maximum mechanical speed	5000 Rpm
[Us] rated supply voltage	220 V
Network number of phases	Single phase
Continuous stall current	7.3 A
Continuous power	1 KW
Shaft end	Keyed
Second shaft	Without second shaft end
Shaft diameter	22 Mm
Shaft length	37 Mm
Key width	8 Mm
Feedback type	20 bits incremental encoder
Holding brake	With
Holding torque	8 N.M
Mounting support	Asian standard flange
Motor flange size	100 Mm
Torque constant	0.43 N.M/A
Back emf constant	16.8 V/Krpm at 20 °C
Rotor inertia	3.33 Kg.Cm²
Stator resistance	0.4 Ohm at 20 °C
Stator inductance	3.62 MH at 20 °C
Stator electrical time constant	9.3 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	192.5 Mm
Number of motor stacks	1
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	4.7 Kg

Environment

IP degree of protection	IP40
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	5.0 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	10.0 Kg

Offer Sustainability

Sustainable packaging	No
Environmental Disclosure	Product Environmental Profile

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commercialisation