Product datasheet

Specifications



Servo motor, Lexium 18, 200W, M80, 23 bits, OPTO INC BK

BCH18MF02332F5C

Main

Range of product	Lexium 18
Range compatibility	Lexium 18
Product or component type	Servo motor
Device short name	BCH18

Complementary

Maximum mechanical speed	6000.0 rpm
[Us] rated supply voltage	200...240 V
Continuous stall current	1.6 A
Continuous stall torque	0.64 N.m, 220 V
Continuous power	200 W
Peak stall torque	2.24 N.m, 220 V
Nominal output power	200 W, 220 V
Nominal torque	0.64 N.m, 220 V
Nominal speed	3000 rpm, 220 V
Maximum permanent current	5.1 A
Shaft end	Parallel key
Shaft diameter	14.0 mm
Shaft length	30.0 mm
Key width	5.0 mm
Feedback type	23 bits optic incremental encoder
Holding brake	With
Holding torque	3.0 N.m
Mounting support	Asian standard flange
Motor flange size	80 mm
Electrical connection	2 connectors male/female
Torque constant	0.4 N.m/A at 40 °C
Back emf constant	26.53 V/krpm at 40 °C
Number of motor poles	5.0
Rotor inertia	0.68 kg.cm²
Stator resistance	7.8 Ohm

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

Stator inductance	21.8 mH
Maximum radial force Fr	392 N
Maximum axial force Fa	147 N
Length	119 mm
Number of mounting holes	4.0
Circle diameter of the mounting holes	6.5 mm
Width	119.0 mm
Height	80.0 mm
Depth	88.6 mm
Net weight	2.1 kg
Network number of phases	3
Encoder type	Optic encoder
Inertia	0.68 kg.cm² of brake 0.0 kg.cm² of motor

Environment

IP degree of protection	IP67
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	13.8 cm
Package 1 Width	18.2 cm
Package 1 Length	28.3 cm
Package 1 Weight	2.3 kg
Unit Type of Package 2	S04
Number of Units in Package 2	8
Package 2 Height	30.0 cm
Package 2 Width	39.7 cm
Package 2 Length	59.8 cm
Package 2 Weight	18.4 kg

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**2 901 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**27 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.3 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**2 874 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.4 kg CO2 eq.**
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**No**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold

Use Again

Repack and remanufacture

End of life manual availability	End of Life Information
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**