Product datasheet

Specifications

Servo motor BCH18, 100w, M60, 23bit, OPTO MT BK

BCH18MD0133CF5C

Main

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

Complementary

Maximum mechanical speed	6000.0 rpm
[Us] rated supply voltage	220 V
Continuous stall current	1.1 A
Continuous stall torque	0.32 N.m, 220 V
Continuous power	100 W
Peak stall torque	0.96 N.m, 220 V
Nominal output power	100 W, 220 V
Nominal torque	0.32 N.m, 220 V
Nominal speed	3000 rpm, 220 V
Maximum current Irms	at 0.1 kW, 220 V
Maximum permanent current	3.4 A
Product compatibility	Motion servo drive motion servo motors motor at 0.1 kW, 220 V
Shaft end	Parallel key
Shaft diameter	8.0 mm
Shaft length	25.0 mm
Key width	3.0 mm
Feedback type	23 bits optic multi turn encoder
Holding brake	With
Holding torque	2.0 N.m
Mounting support	Asian standard flange
Motor flange size	60 mm
Electrical connection	2 connectors male/female
Number of motor poles	5.0
Rotor inertia	0.22 kg.cm²
Stator resistance	11.8 Ohm
Stator inductance	27.0 mH

Maximum radial force Fr	245 N
Maximum axial force Fa	74 N
Length	108.7 mm
Number of mounting holes	4
Circle diameter of the mounting holes	5.5 mm
Width	108.7 mm
Height	60.0 mm
Depth	68.6 mm
Net weight	1.05 kg
Encoder type	Optic encoder
Inertia	0.22 kg.cm² of brake 0.0 kg.cm² of motor

Environment

IP degree of protection	IP67

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.8 cm
Package 1 Width	12.2 cm
Package 1 Length	26.8 cm
Package 1 Weight	1.3215 kg
Unit Type of Package 2	S03
Number of Units in Package 2	6
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.929 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	**1 429 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**10 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.2 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.4 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**1 417 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**2 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 Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

End of life manual availability	**End of Life Information**
Take-back	**Nej**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**