

Product datasheet

Specifications



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

BCH18MD0133CA5C

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	Without
Mounting support	Asian standard flange
Motor flange size	60 mm
Electrical connection	2 connectors male/female
Number of motor poles	5.0
Rotor inertia	0.16 kg.cm ²
Stator resistance	11.8 Ohm
Stator inductance	27.0 mH
Maximum radial force Fr	245 N

Maximum axial force Fa	74 N
Length	69.2 mm
Number of mounting holes	4
Circle diameter of the mounting holes	5.5 mm
Width	69.2 mm
Height	60.0 mm
Depth	68.6 mm
Net weight	0.65 kg
Encoder type	Optic encoder
Inertia	0.0 kg.cm ² of brake 0.16 kg.cm ² of motor

Environment

IP degree of protection	IP67
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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	921.5 g
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	5.529 kg

Contractual warranty

Warranty (in months)	18
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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	1 425 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	6 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.2 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]	1 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
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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