

Product datasheet

Specifications



Servo motor BCH18, 1.8kw, M130, 23bit, OPTO MT

BCH18MM1813CA6C

Main

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

Complementary

Maximum mechanical speed	3000.0 rpm
[Us] rated supply voltage	220 V
Continuous stall current	14 A
Continuous stall torque	11.5 N.m, 220 V
Continuous power	1800 W
Peak stall torque	34.5 N.m, 220 V
Nominal output power	1800 W, 220 V
Nominal torque	11.5 N.m, 220 V
Nominal speed	1500 rpm, 220 V
Maximum current Irms	at 1.8 kW, 220 V
Maximum permanent current	42.0 A
Product compatibility	Motion servo drive motion servo motors motor at 1.8 kW, 220 V
Shaft end	Parallel key
Shaft diameter	24.0 mm
Shaft length	63.0 mm
Key width	8.0 mm
Feedback type	23 bits optic multi turn encoder
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	130.0 mm
Electrical connection	2 connectors male/female
Number of motor poles	5.0
Rotor inertia	27.79 kg.cm²
Stator resistance	0.29 Ohm
Stator inductance	2.85 mH
Maximum radial force Fr	980 N

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

Maximum axial force Fa	392 N
Length	195.9 mm
Number of mounting holes	4
Circle diameter of the mounting holes	9 mm
Width	195.9 mm
Height	130 mm
Depth	182.4 mm
Net weight	11.2 kg
Encoder type	Optic encoder
Inertia	0.0 kg.cm² of brake 27.79 kg.cm² 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	25 cm
Package 1 Width	30 cm
Package 1 Length	40 cm
Package 1 Weight	12.303 kg
Unit Type of Package 2	P06
Number of Units in Package 2	18
Package 2 Height	105 cm
Package 2 Width	60 cm
Package 2 Length	80 cm
Package 2 Weight	221.454 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	15 729 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	111 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	4 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	15 595 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	17 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

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	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins