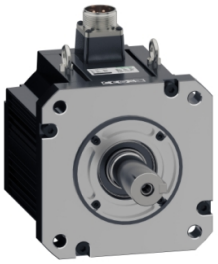
Product datasheet

Specifications



Servo motor BCH18, 3.0kw, M180, 23bit, OPTO MT BK

BCH18MR3013CF6C

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	18.9 A
Continuous stall torque	19.1 N.m, 220 V
Continuous power	3000 W
Peak stall torque	55.4 N.m, 220 V
Nominal output power	3000 W, 220 V
Nominal torque	19.1 N.m, 220 V
Nominal speed	1500 rpm, 220 V
Maximum current Irms	at 3.0 kW, 220 V
Maximum permanent current	54.6 A
Product compatibility	Motion servo drive motion servo motors motor at 3.0 kW, 220 V
Shaft end	Parallel key
Shaft diameter	35.0 mm
Shaft length	79.0 mm
Key width	10.0 mm
Feedback type	23 bits optic multi turn encoder
Holding brake	With
Holding torque	40 N.m
Mounting support	Asian standard flange
Motor flange size	180 mm
Electrical connection	2 connectors male/female
Number of motor poles	5.0
Rotor inertia	51.1 kg.cm²
Stator resistance	0.187 Ohm
Stator inductance	3.64 mH

Maximum radial force Fr	1470 N
Maximum axial force Fa	490 N
Length	245.2 mm
Number of mounting holes	4
Circle diameter of the mounting holes	13.5 mm
Width	245.2 mm
Height	180.0 mm
Depth	231.2 mm
Net weight	22.45 kg
Encoder type	Optic encoder
Inertia	51.1 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	35.3 cm
Package 1 Width	29.5 cm
Package 1 Length	40.5 cm
Package 1 Weight	24.317 kg
Unit Type of Package 2	P06
Number of Units in Package 2	8
Package 2 Height	105 cm
Package 2 Width	60 cm
Package 2 Length	80 cm
Package 2 Weight	194.536 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	**20 754 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**223 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**4 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**8 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**20 486 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**34 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	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**