

# Product datasheet

Specifications



## Servo motor, Easy Lexium 18, 400W, M80, 23 bits, OPTO INC BK

BCH18MF04332F5C

### 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	200...240 V
Continuous stall current	2.6 A
Continuous stall torque	1.27 N.m, 220 V
Continuous power	400 W
Peak stall torque	4.45 N.m, 220 V
Nominal output power	400 W, 220 V
Nominal torque	1.27 N.m, 220 V
Nominal speed	3000 rpm, 220 V
Maximum permanent current	9.3 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	0.49 N.m/A at 40 °C
Back emf constant	35.0 V/krpm at 40 °C
Number of motor poles	5.0
Rotor inertia	1.33 kg.cm <sup>2</sup>
Stator resistance	2.8 Ohm
Stator inductance	8.9 mH

Maximum radial force Fr	392 N
Maximum axial force Fa	147 N
Length	136.8 mm
Number of mounting holes	4.0
Circle diameter of the mounting holes	6.5 mm
Width	136.8 mm
Height	80.0 mm
Depth	88.6 mm
Net weight	2.7 kg
Encoder type	Optic encoder
Inertia	1.33 kg.cm <sup>2</sup> of brake 0.0 kg.cm <sup>2</sup> 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	3.14 kg
Unit Type of Package 2	S04
Number of Units in Package 2	7
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	22 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	5 783 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Carbon footprint of the manufacturing phase [A1 to A3]	34 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	5 748 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.5 kg CO2 eq.

### Use Better



#### Materials and Packaging

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	<a href="#">End of Life Information</a>
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