

# Product datasheet

Specifications



## Servo motor, Easy Lexium 18, 1.5kW, L100, 23 bits, OPTO INC

BCH18LH15332A6C

### 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	9.2 A
Continuous stall torque	4.77 N.m, 220 V
Continuous power	1500 W
Peak stall torque	14.3 N.m, 220 V
Nominal output power	1500 W, 220 V
Nominal torque	4.77 N.m, 220 V
Nominal speed	3000 rpm, 220 V
Maximum permanent current	28.8 A
Shaft end	Parallel key
Shaft diameter	22.0 mm
Shaft length	45.0 mm
Key width	8.0 mm
Feedback type	23 bits optic incremental encoder
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	100 mm
Electrical connection	2 connectors male/female
Torque constant	0.52 N.m/A at 40 °C
Back emf constant	34.2 V/krpm at 40 °C
Number of motor poles	5.0
Rotor inertia	2.09 kg.cm <sup>2</sup>
Stator resistance	0.4 Ohm
Stator inductance	3.0 mH
Maximum radial force Fr	686 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	196 N
Length	159 mm
Number of mounting holes	4.0
Circle diameter of the mounting holes	9.0 mm
Width	159.0 mm
Height	100.0 mm
Depth	152.2 mm
Net weight	4.5 kg
Encoder type	Optic encoder
Inertia	0.0 kg.cm <sup>2</sup> of brake 2.09 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	27.5 cm
Package 1 Width	18.2 cm
Package 1 Length	27.8 cm
Package 1 Weight	5.23 kg
Unit Type of Package 2	S04
Number of Units in Package 2	4
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	20.92 kg
Unit Type of Package 3	P06
Number of Units in Package 3	24
Package 3 Height	105 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	125.52 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	13 060 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Carbon footprint of the manufacturing phase [A1 to A3]	56 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.6 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	13 002 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.8 kg CO2 eq.

### Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>

### 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