

Product datasheet

Specifications



Servo motor, Easy Lexium 18, 100W, M60, 23 bits, OPTO INC BK

BCH18MD01332F5C

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	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 permanent current	3.4 A
Shaft end	Parallel key
Shaft diameter	8 mm
Shaft length	25 mm
Key width	3 mm
Feedback type	23 bits optic incremental encoder
Holding brake	With
Holding torque	2.0 N.m
Mounting support	Asian standard flange
Motor flange size	60 mm
Electrical connection	2 connectors male/female
Torque constant	0.29 N.m/A at 40 °C
Back emf constant	19.9 V/krpm at 40 °C
Number of motor poles	5.0
Rotor inertia	0.22 kg.cm ²
Stator resistance	11.8 Ohm
Stator inductance	27.0 mH

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 radial force Fr	254 N
Maximum axial force Fa	74 N
Length	108.7 mm
Number of mounting holes	4.0
Circle diameter of the mounting holes	5.5 mm
Width	108.7 mm
Height	60.0 mm
Depth	68.6 mm
Net weight	1.05 kg
Encoder type	Optic encoder
Inertia	0.22 kg.cm ² of brake 0.0 kg.cm ² 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	12.2 cm
Package 1 Length	26.8 cm
Package 1 Weight	1.2 kg
Unit Type of Package 2	S03
Number of Units in Package 2	6
Package 2 Height	30.0 cm
Package 2 Width	29.9 cm
Package 2 Length	39.8 cm
Package 2 Weight	7.2 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	1 665 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	14 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 651 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.

Use Better



Materials and Packaging

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