

Product datasheet

Specifications



Servo motor, Easy Lexium 18, 1.8kW, M130, 23 bits, OPTO INC BK

BCH18MM18132F6C

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	200...240 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 permanent current	42.0 A
Shaft end	Parallel key
Shaft diameter	24 mm
Shaft length	63 mm
Key width	8.0 mm
Feedback type	23 bits optic incremental encoder
Holding brake	With
Holding torque	20.0 N.m
Mounting support	Asian standard flange
Motor flange size	130 mm
Electrical connection	2 connectors male/female
Torque constant	0.82 N.m/A at 40 °C
Back emf constant	53.7 V/krpm at 40 °C
Number of motor poles	5.0
Rotor inertia	28.45 kg.cm ²
Stator resistance	0.29 Ohm
Stator inductance	2.85 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	980 N
Maximum axial force Fa	392 N
Length	238.5 mm
Number of mounting holes	4.0
Circle diameter of the mounting holes	9.0 mm
Width	238.5 mm
Height	130.0 mm
Depth	182.4 mm
Product weight	12.7 kg
Encoder type	Optic encoder
Inertia	28.45 kg.cm² of brake 0.0 kg.cm² 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	25 cm
Package 1 Width	20 cm
Package 1 Length	40 cm
Package 1 Weight	13.75 kg
Unit Type of Package 2	P06
Number of Units in Package 2	18
Package 2 Height	105.0 cm
Package 2 Width	60.0 cm
Package 2 Length	80.0 cm
Package 2 Weight	247.5 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	18 325 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	153 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	18 168 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Packaging

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
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