Product datasheet

Specifications

Servo motor, Easy Lexium 18, 100W, M40, 23 bits, OPTO INC BK

BCH18MB01332F5C

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	1.12 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	3.9 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	0.35 N.m
Mounting support	Asian standard flange
Motor flange size	40 mm
Electrical connection	2 connectors male/female
Torque constant	0.29 N.m/A at 40 °C
Back emf constant	21.0 V/krpm at 40 °C
Number of motor poles	5.0
Rotor inertia	0.076 kg.cm²
Stator resistance	21.0 Ohm
Stator inductance	26.1 mH

Maximum radial force Fr	78 N
Maximum axial force Fa	54 N
Type of cooling	Natural convection
Length	132.8 mm
Number of mounting holes	2.0
Circle diameter of the mounting holes	4.5 mm
Width	132.8 mm
Height	42.0 mm
Depth	50.75 mm
Net weight	0.69 kg
Encoder type	Optic encoder
Inertia	0.076 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	9.2 cm
Package 1 Width	9.1 cm
Package 1 Length	26.8 cm
Package 1 Weight	800 g
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	29.9 cm
Package 2 Length	39.8 cm
Package 2 Weight	9.1 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	**2 587 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**
Carbon footprint of the manufacturing phase [A1 to A3]	**9 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.1 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**2 577 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.1 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**

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**