

Product datasheet

Specifications



servo motor BCH16, Lexium 16D,
40mm, shaft 8mm, 100W, Light
inertia, 3000rpm

BCH16LB01330A5C2

Main

Range compatibility	Easy Lexium 16
Device short name	BCH16
Product or component type	Servo motor

Complementary

Maximum mechanical speed	5000 rpm
[Us] rated supply voltage	220 V
Network number of phases	3 phases
Continuous stall current	1.0 A
Continuous stall torque	0.32 N.m for LXM16D at 1.34 A, 220 V, single phase
Continuous power	100 W
Peak stall torque	0.95 N.m for LXM16D at 1.34 A, 220 V, single phase
Nominal output power	100 W for LXM16D at 1.34 A, 220 V, single phase
Nominal torque	0.32 N.m for LXM16D at 1.34 A, 220 V, single phase
Nominal speed	3000 rpm for LXM16D at 1.34 A, 220 V, single phase
Maximum current Irms	2.7 A for LXM16D at 0.1 kW, 220 V
Maximum permanent current	3 A
Product compatibility	LXM16D motion servo motors motor at 0.1 kW, 220 V, single phase
Shaft end	Parallel key
Second shaft	Without second shaft end
Shaft diameter	8 mm
Shaft length	12.5 mm
Key width	3 mm
Feedback type	2500 incremental encoder
Holding brake	Without
Holding torque	0.32 N.m
Mounting support	Asian standard flange
Motor flange size	40 mm
Electrical connection	Free lead
Torque constant	0.36 N.m/A at 20 °C
Back emf constant	23.7 V/krpm at 20 °C

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

Rotor inertia	0.041 kg.cm²
Stator resistance	25.4 Ohm at 20 °C
Stator inductance	26.5 mH at 20 °C
Stator electrical time constant	1.04 ms at 20 °C
Maximum radial force Fr	73.5 N at 3000 rpm
Maximum axial force Fa	12.74 N
Type of cooling	Natural convection
Length	98.2 mm
Centring collar diameter	30 mm
Centring collar depth	2.5 mm
Number of mounting holes	2
Mounting holes diameter	4.5 mm
Circle diameter of the mounting holes	46 mm
Distance shaft shoulder-flange	19.8 mm
Width	40 mm
Height	55 mm
Depth	98.2 mm
Net weight	0.480 kg

Environment

IP degree of protection	IP65 IM B5, IM V1 IP65 IM V3
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	6.4 cm
Package 1 Width	11 cm
Package 1 Length	25.8 cm
Package 1 Weight	650 g

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	3 443 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	10 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]	3 433 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.

Use Better



Materials and Substances

Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
REACH Regulation	REACH Declaration

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