

# Product datasheet

Specifications



servo motor BCH16, Lexium 16D,  
80mm, shaft 19mm, 1.0kW, Low  
inertia, 3000rpm

BCH16LF10330A5C2

## 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	6.8 A
Continuous stall torque	3.18 N.m for LXM16D at 10.13 A, 220 V, single phase
Continuous power	1000 W
Peak stall torque	9.55 N.m for LXM16D at 10.13 A, 220 V, single phase
Nominal output power	1000 W for LXM16D at 10.13 A, 220 V, single phase
Nominal torque	3.18 N.m for LXM16D at 10.13 A, 220 V, single phase
Nominal speed	3000 rpm for LXM16D at 10.13 A, 220 V, single phase
Maximum current Irms	21.9 A for LXM16D at 1.0 kW, 220 V
Maximum permanent current	21.8 A
Product compatibility	LXM16D motion servo motors motor at 1 kW, 220 V, single phase
Shaft end	Parallel key
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	22 mm
Key width	6 mm
Feedback type	2500 incremental encoder
Holding brake	Without
Holding torque	6.5 N.m
Mounting support	Asian standard flange
Motor flange size	80 mm
Electrical connection	Free lead
Torque constant	0.51 N.m/A at 20 °C
Back emf constant	31.1 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

<b>Rotor inertia</b>	1.24 kg.cm <sup>2</sup>
<b>Stator resistance</b>	0.75 Ohm at 20 °C
<b>Stator inductance</b>	4.2 mH at 20 °C
<b>Stator electrical time constant</b>	5.6 ms at 20 °C
<b>Maximum radial force Fr</b>	343.98 N at 3000 rpm
<b>Maximum axial force Fa</b>	122.3 N
<b>Type of cooling</b>	Natural convection
<b>Length</b>	139 mm
<b>Centring collar diameter</b>	95 mm
<b>Centring collar depth</b>	3 mm
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	9 mm
<b>Circle diameter of the mounting holes</b>	115 mm
<b>Distance shaft shoulder-flange</b>	50 mm
<b>Width</b>	100 mm
<b>Height</b>	153.4 mm
<b>Depth</b>	139 mm
<b>Net weight</b>	3.8 kg

## Environment

<b>IP degree of protection</b>	IP65 IM B5, IM V1 IP65 IM V3
<b>Ambient air temperature for operation</b>	0...40 °C

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	13.5 cm
<b>Package 1 Width</b>	17 cm
<b>Package 1 Length</b>	27.5 cm
<b>Package 1 Weight</b>	3.2 kg

## Contractual warranty

<b>Warranty (in months)</b>	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	8 789 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Carbon footprint of the manufacturing phase [A1 to A3]	49 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	8 739 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.

## Use Better



### Materials and Packaging

Packaging without single use plastic	No
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## 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