

Product datasheet

Specifications



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

BCH16LB01330F5C

⚠ Discontinued on: 23 Jan 2021

⚠ Discontinued

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	With
Holding torque	0.32 N.m built-in
Mounting support	Asian standard flange
Motor flange size	40 mm
Electrical connection	Free lead
Torque constant	0.32 N.m/A 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

Back emf constant	23.7 V/krpm at 20 °C
Rotor inertia	0.047 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
Brake pull-in power	6.2 W
Type of cooling	Natural convection
Length	131.3 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	131.2 mm
Net weight	0.7 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	11.0 cm
Package 1 Width	25.8 cm
Package 1 Length	6.4 cm
Package 1 Weight	850.0 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	10.4 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

Environmental Disclosure

[Product Environmental Profile](#)

Use Better



Materials and Substances

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

End of life manual availability

[End of Life Information](#)

WEEE Label

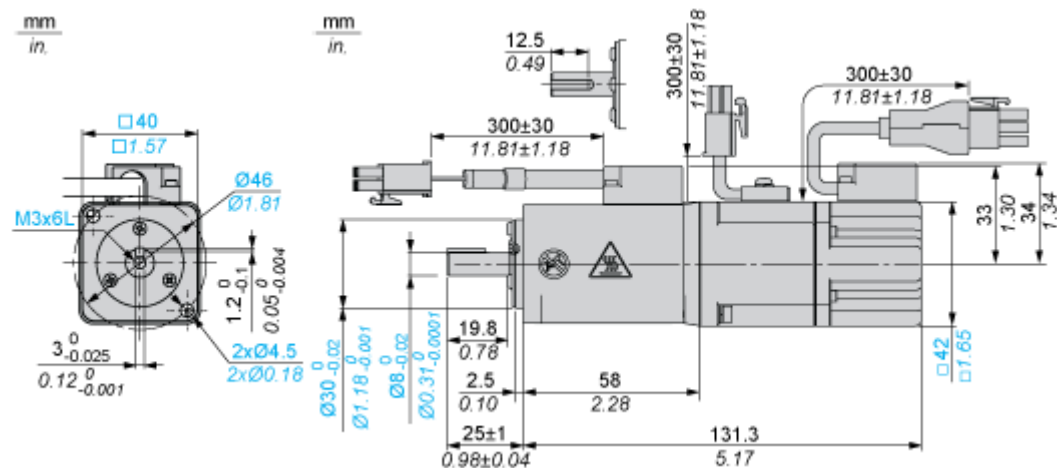


The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

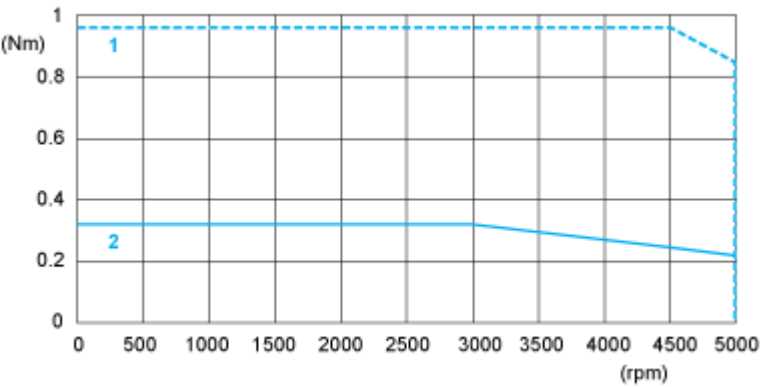
Motor Dimension

Front and Left Views



Performance Curves

Torque/Speed Curves with 220 V Single Phase Supply Voltage



- 1 : Peak torque
- 2 : Continuous torque