

# Product data sheet

Specifications



## servo motor BCH16, 60 mm, 400W, Heavy inertia, 3000rpm

BCH16HD04330A5C

! Discontinued on: 27 May 2021

! Discontinued

### Main

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

### Complementary

Maximum mechanical speed	5000 rpm
[Us] rated supply voltage	220 V
Network number of phases	3 phases
Continuous stall current	2.6 A
Continuous stall torque	1.27 N.m for LXM16D at 4.52 A, 220 V, single phase
Continuous power	400 W
Peak stall torque	3.81 N.m for LXM16D at 4.52 A, 220 V, single phase
Nominal output power	400 W for LXM16D at 4.52 A, 220 V, single phase
Nominal torque	1.27 N.m for LXM16D at 4.52 A, 220 V, single phase
Nominal speed	3000 rpm for LXM16D at 4.52 A, 220 V, single phase
Maximum current Irms	7.8 A for LXM16D at 0.4 kW, 220 V
Maximum permanent current	8.1 A
Product compatibility	LXM16D motion servo motors motor at 0.4 kW, 220 V, single phase
Shaft end	Parallel key
Second shaft	Without second shaft end
Shaft diameter	14 mm
Shaft length	20 mm
Key width	5 mm
Feedback type	2500 incremental encoder
Holding brake	Without
Holding torque	1.5 N.m
Mounting support	Asian standard flange
Motor flange size	60 mm

<b>Electrical connection</b>	Free lead
<b>Torque constant</b>	0.47 N.m/A at 20 °C
<b>Back emf constant</b>	32.78 V/krpm at 20 °C
<b>Rotor inertia</b>	0.67 kg.cm <sup>2</sup>
<b>Stator resistance</b>	3.3 Ohm at 20 °C
<b>Stator inductance</b>	11 mH at 20 °C
<b>Stator electrical time constant</b>	3.33 ms at 20 °C
<b>Maximum radial force Fr</b>	220.5 N at 3000 rpm
<b>Maximum axial force Fa</b>	61.74 N
<b>Type of cooling</b>	Natural convection
<b>Length</b>	128.5 mm
<b>Centring collar diameter</b>	50 mm
<b>Centring collar depth</b>	3 mm
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	5.5 mm
<b>Circle diameter of the mounting holes</b>	70 mm
<b>Distance shaft shoulder-flange</b>	25 mm
<b>Width</b>	60 mm
<b>Height</b>	73 mm
<b>Depth</b>	128.5 mm
<b>Net weight</b>	1.53 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

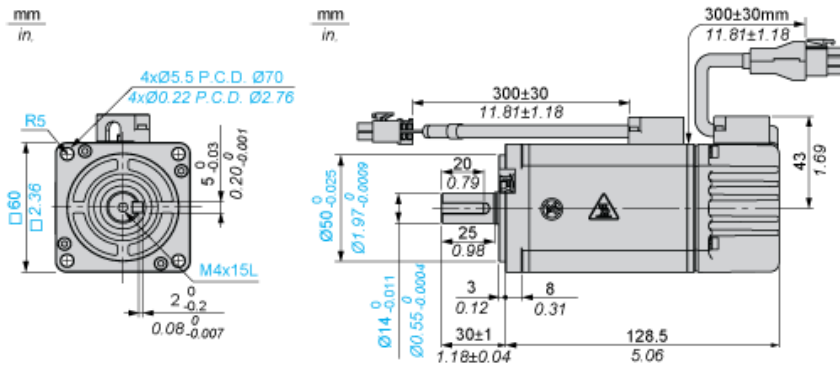
## Offer Sustainability

<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>REACH free of SVHC</b>	Yes
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
<b>California proposition 65</b>	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

**Motor Dimension**

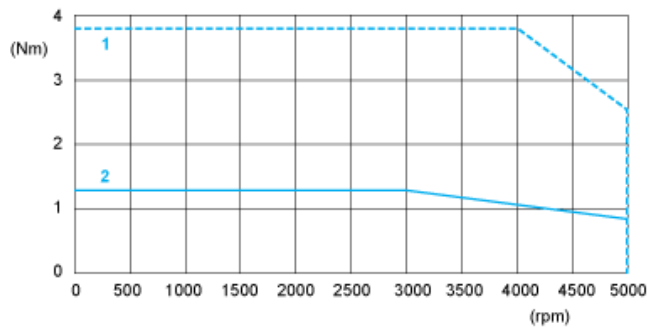
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**Front and Left Views**



**Torque/Speed Curves with 220 V Single Phase Supply Voltage**

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- 1 : Peak torque
- 2 : Continuous torque

**Recommended replacement(s)**

BCH16HD04330A5C is replaced by:

1x



servo motor BCH16, 60 mm, shaft 14 mm, 400W, Heavy inertia, 3000rpm  
BCH16HD04330A5C2