

# Product data sheet

Specifications



## servo motor BCH16, 80 mm, 750W, Heavy inertia, 3000rpm

BCH16HF07330A5C

⚠ To be discontinued on: 28 July 2023

⚠ To be 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	4.3 A
Continuous stall torque	2.39 N.m for LXM16D at 7.81 A, 220 V, single phase
Continuous power	750 W
Peak stall torque	7.16 N.m for LXM16D at 7.81 A, 220 V, single phase
Nominal output power	750 W for LXM16D at 7.81 A, 220 V, single phase
Nominal torque	2.39 N.m for LXM16D at 7.81 A, 220 V, single phase
Nominal speed	3000 rpm for LXM16D at 7.81 A, 220 V, single phase
Maximum current Irms	15.3 A for LXM16D at 0.75 kW, 220 V
Maximum permanent current	14 A
Product compatibility	LXM16D motion servo motors motor at 0.75 kW, 220 V, single phase
Shaft end	Parallel key
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	28 mm
Key width	6 mm
Feedback type	2500 incremental encoder
Holding brake	Without
Holding torque	3.0 N.m
Mounting support	Asian standard flange
Motor flange size	80 mm

Electrical connection	Free lead
Torque constant	0.56 N.m/A at 20 °C
Back emf constant	37.3 V/krpm at 20 °C
Rotor inertia	1.51 kg.cm <sup>2</sup>
Stator resistance	1.58 Ohm at 20 °C
Stator inductance	9.2 mH at 20 °C
Stator electrical time constant	5.82 ms at 20 °C
Maximum radial force Fr	221.48 N at 3000 rpm
Maximum axial force Fa	61.74 N
Type of cooling	Natural convection
Length	137 mm
Centring collar diameter	70 mm
Centring collar depth	3 mm
Number of mounting holes	4
Mounting holes diameter	6.5 mm
Circle diameter of the mounting holes	90 mm
Distance shaft shoulder-flange	36 mm
Width	80 mm
Height	93 mm
Depth	137 mm
Net weight	2.7 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	17.0 cm
Package 1 Width	27.5 cm
Package 1 Length	13.5 cm
Package 1 Weight	2.85 kg
Unit Type of Package 2	S04
Number of Units in Package 2	8
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	22.8 kg

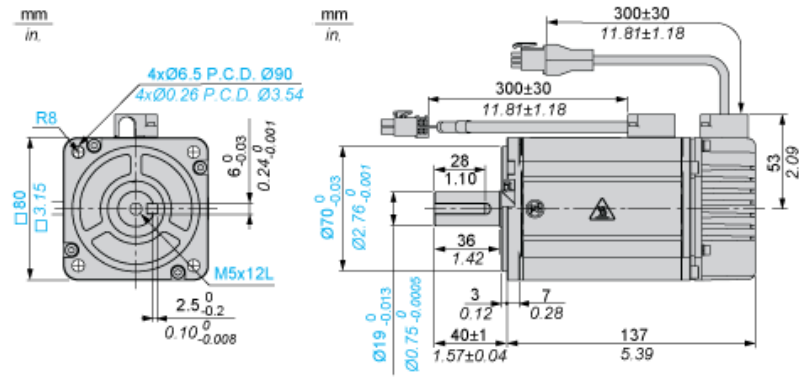
## Offer Sustainability

REACH Regulation	<a href="#">REACH Declaration</a>
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<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>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>RoHS exemption information</b>	Yes
<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>

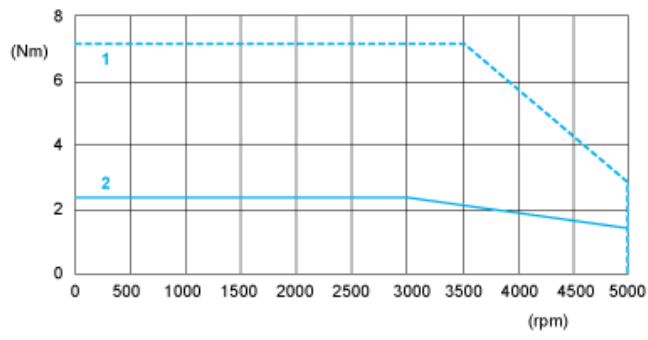
**Motor Dimension**

**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)**