

# Product datasheet

Specifications



## servo motor BCH, 130mm, 1500W, w oil seal, w key, straight con

BCH2MM1523CA6C

### Main

Range compatibility	Lexium 28
Product or component type	Servo motor
Device short name	BCH2

### Complementary

Maximum mechanical speed	3000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Single phase Three phase
Continuous stall current	6.18 A
Continuous stall torque	7.16 N.m for LXM26D at 7 A, 220 V, single phase 7.16 N.m for LXM26D at 7 A, 220 V, three phase 7.16 N.m for LXM28... at 7 A, 220 V, single phase 7.16 N.m for LXM28... at 7 A, 220 V, three phase
Continuous power	1500 W
Peak stall torque	21.48 N.m for LXM26D at 7 A, 220 V, single phase 21.48 N.m for LXM26D at 7 A, 220 V, three phase 21.48 N.m for LXM28... at 7 A, 220 V, single phase 21.48 N.m for LXM28... at 7 A, 220 V, three phase
Nominal output power	1500 W for LXM26D at 7 A, 220 V, single phase 1500 W for LXM26D at 7 A, 220 V, three phase 1500 W for LXM28... at 7 A, 220 V, single phase 1500 W for LXM28... at 7 A, 220 V, three phase
Nominal torque	7.16 N.m for LXM26D at 7 A, 220 V, single phase 7.16 N.m for LXM26D at 7 A, 220 V, three phase 7.16 N.m for LXM28... at 7 A, 220 V, single phase 7.16 N.m for LXM28... at 7 A, 220 V, three phase
Nominal speed	2000 rpm for LXM26D at 7 A, 220 V, single phase 2000 rpm for LXM26D at 7 A, 220 V, three phase 2000 rpm for LXM28... at 7 A, 220 V, single phase 2000 rpm for LXM28... at 7 A, 220 V, three phase
Maximum current Irms	20.31 A for LXM28... at 1.5 kW, 220 V
Maximum permanent current	6.74 A
Product compatibility	LXM26D servo drive motor at 1.5 kW, 220 V, single phase LXM26D servo drive motor at 1.5 kW, 220 V, three phase LXM28... servo drive motor at 1.5 kW, 220 V, single phase LXM28... servo drive motor at 1.5 kW, 220 V, three phase
Shaft end	Keyed
Shaft diameter	22 mm
Shaft length	55 mm

<b>Key width</b>	8 mm
<b>Feedback type</b>	20 bits single turn absolute encoder
<b>Holding brake</b>	Without
<b>Mounting support</b>	Asian standard flange
<b>Motor flange size</b>	130 mm
<b>Electrical connection</b>	Connector MIL
<b>Torque constant</b>	1.16 N.m/A at 20 °C
<b>Back emf constant</b>	70 V/krpm at 20 °C
<b>Rotor inertia</b>	9.7 kg.cm <sup>2</sup>
<b>Stator resistance</b>	0.64 Ohm at 20 °C
<b>Stator inductance</b>	6.4 mH at 20 °C
<b>Stator electrical time constant</b>	10 ms at 20 °C
<b>Maximum radial force Fr</b>	670 N at 2000 rpm
<b>Maximum axial force Fa</b>	200 N
<b>Brake pull-in power</b>	19.7 W
<b>Type of cooling</b>	Natural convection
<b>Length</b>	167 mm
<b>Number of motor stacks</b>	3
<b>Centring collar diameter</b>	110 mm
<b>Centring collar depth</b>	8 mm
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	9.2 mm
<b>Circle diameter of the mounting holes</b>	145 mm
<b>Distance shaft shoulder-flange</b>	8 mm
<b>Net weight</b>	7.6 kg

## Environment

<b>IP degree of protection</b>	IP50 IM V3 IP65 IM B5, IM V1
<b>Ambient air temperature for operation</b>	-20...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>	19.9 cm
<b>Package 1 Width</b>	23.6 cm
<b>Package 1 Length</b>	36.5 cm
<b>Package 1 Weight</b>	9.93 kg
<b>Unit Type of Package 2</b>	S06
<b>Number of Units in Package 2</b>	9
<b>Package 2 Height</b>	73.5 cm
<b>Package 2 Width</b>	60.0 cm
<b>Package 2 Length</b>	80.0 cm

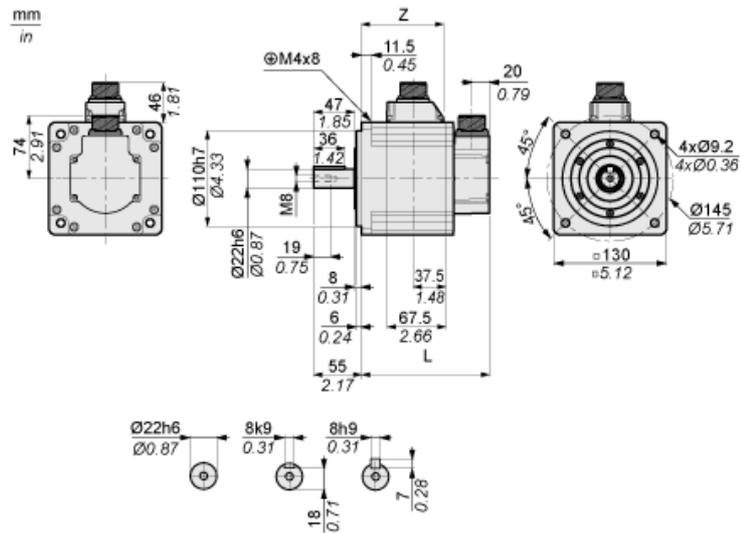
<b>Package 2 Weight</b>	95.0 kg
-------------------------	---------

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<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>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>RoHS exemption information</b>	Yes
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</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>PVC free</b>	Yes

Dimensions

Dimensions of Motor

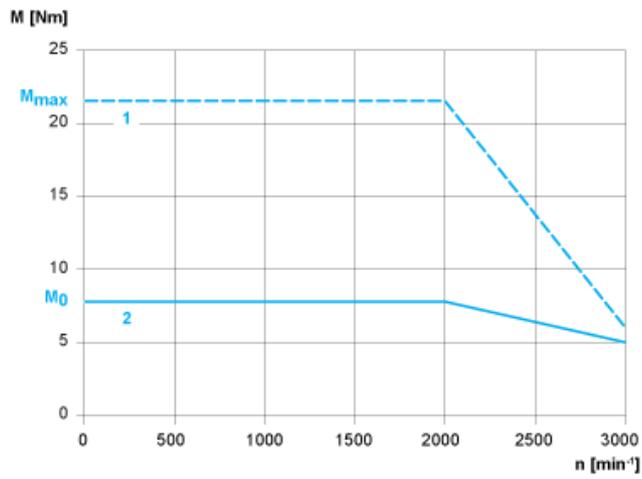


	mm	in.
L (without holding brake)	167	6.57
L (with holding brake)	202	7.95
Z	114.5	4.51

## Torque/Speed Curves with 230 V Single/Three Phase Supply Voltage

---

Servo Motor with LXM28AU15••• Servo Drive



- 1 : Peak torque
- 2 : Continuous torque

### Recommended replacement(s)