

# Product data sheet

## Characteristics

### BCH2LF0433CA5C

servo motor BCH, Lexium 28, 80mm, 400W, 0.67kg.cm<sup>2</sup>, with oil seal, with key, leads connection



#### Main

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

#### Complementary

Maximum mechanical speed	5000 rpm
[Us] rated supply voltage	220 V 110 V
Network number of phases	Single phase Three phase
Continuous stall current	2.29 A
Continuous stall torque	1.27 N.M for LXM26D at 2.6 A, 220 V, single phase 1.27 N.M for LXM26D at 2.6 A, 220 V, three phase 1.27 N.M for LXM28... at 2.6 A, 220 V, single phase 1.27 N.M for LXM28... at 2.6 A, 220 V, three phase 1.27 N.m for LXM28... at 5.7 A, 110 V, single phase
Continuous power	400 W
Peak stall torque	3.81 N.M for LXM26D at 2.6 A, 220 V, single phase 3.81 N.M for LXM26D at 2.6 A, 220 V, three phase 3.81 N.M for LXM28... at 2.6 A, 220 V, single phase 3.81 N.M for LXM28... at 2.6 A, 220 V, three phase 3.81 N.m for LXM28... at 5.7 A, 110 V, single phase
Nominal output power	400 W for LXM26D at 2.6 A, 220 V, single phase 400 W for LXM26D at 2.6 A, 220 V, three phase 400 W for LXM28... at 2.6 A, 220 V, single phase 400 W for LXM28... at 2.6 A, 220 V, three phase 400 W for LXM28... at 5.7 A, 110 V, single phase
Nominal torque	1.27 N.M for LXM26D at 2.6 A, 220 V, single phase 1.27 N.M for LXM26D at 2.6 A, 220 V, three phase 1.27 N.M for LXM28... at 2.6 A, 220 V, single phase 1.27 N.M for LXM28... at 2.6 A, 220 V, three phase 1.27 N.m for LXM28... at 5.7 A, 110 V, single phase
Nominal speed	3000 rpm for LXM26D at 2.6 A, 220 V, single phase 3000 rpm for LXM26D at 2.6 A, 220 V, three phase 3000 rpm for LXM28... at 2.6 A, 220 V, single phase 3000 rpm for LXM28... at 2.6 A, 220 V, three phase 3000 rpm for LXM28... at 5.7 A, 110 V, single phase
Maximum current Irms	7.73 A for LXM28... at 0.4 kW, 220 V 7.73 A for LXM28... at 0.4 kW, 110 V
Maximum permanent current	2.52 A
Product compatibility	LXM26D servo drive motor at 0.4 kW, 220 V, single phase LXM26D servo drive motor at 0.4 kW, 220 V, three phase LXM28... servo drive motor at 0.4 kW, 220 V, single phase LXM28... servo drive motor at 0.4 kW, 220 V, three phase LXM28... servo drive motor at 0.4 kW, 110 V, single phase

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Shaft end	Keyed
Shaft diameter	14 mm
Shaft length	30 mm
Key width	5 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	80 mm
Electrical connection	Free lead
Torque constant	0.55 N.m/A at 20 °C
Back emf constant	33.5 V/krpm at 20 °C
Rotor inertia	0.67 kg.cm²
Stator resistance	3.2 Ohm at 20 °C
Stator inductance	11.3 mH at 20 °C
Stator electrical time constant	3.53 ms at 20 °C
Maximum radial force Fr	332 N at 3000 rpm
Maximum axial force Fa	115 N
Brake pull-in power	10.2 W
Type of cooling	Natural convection
Length	112 mm
Number of motor stacks	1
Centring collar diameter	70 mm
Centring collar depth	4 mm
Number of mounting holes	4
Mounting holes diameter	6.6 mm
Circle diameter of the mounting holes	90 mm
Distance shaft shoulder-flange	4 mm
Net weight	2 kg

## Environment

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient air temperature for operation	-20...40 °C

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.8 cm
Package 1 Width	17.5 cm
Package 1 Length	29.6 cm
Package 1 Weight	2.475 kg
Unit Type of Package 2	CAR
Number of Units in Package 2	24
Package 2 Height	73.5 cm
Package 2 Width	60.0 cm
Package 2 Length	80.0 cm
Package 2 Weight	59.4 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>

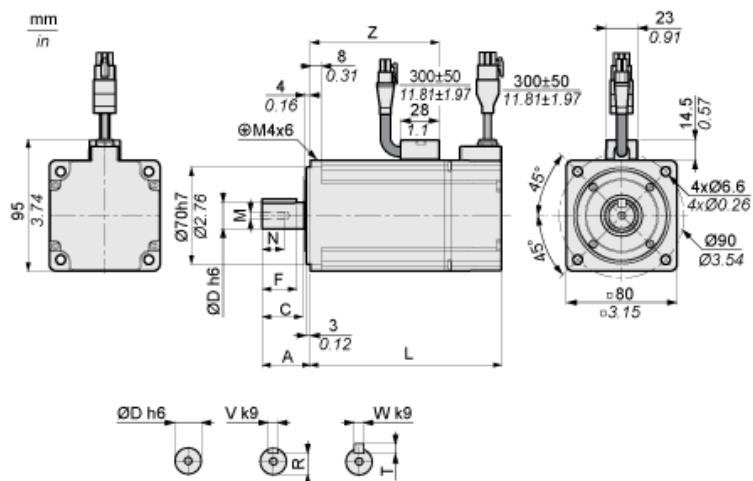
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RoHS exemption information	<input checked="" type="checkbox"/> Yes
Environmental Disclosure	<input checked="" type="checkbox"/> Product Environmental Profile
Circularity Profile	<input checked="" type="checkbox"/> End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

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Dimensions

Dimensions of Motor



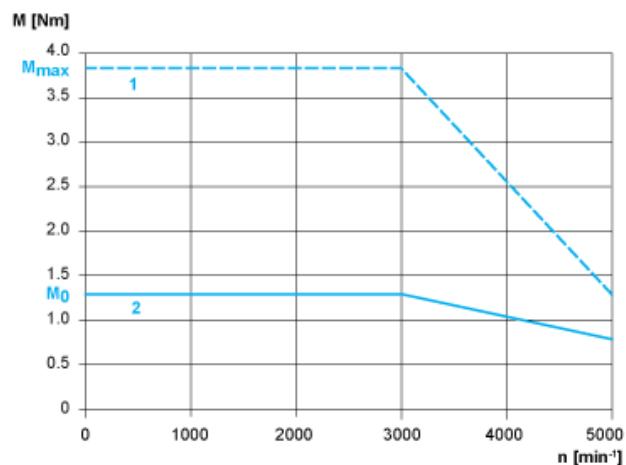
	mm	in.
L (without holding brake)	112	4.41
L (with holding brake)	152	5.98
A	30	1.18
C	24.5	0.96
D	14	0.55
F	20	0.79
R	11	0.43
T	5	0.2
V	5	0.2
W	5	0.2
Z	68	2.68

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

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Servo Motor with LXM28AU02●●● Servo Drive



1 : Peak torque  
2 : Continuous torque