## BCH2LF0432CF5C

servo motor BCH, Lexium 28, 80mm, 400W, with oil seal, smooth, brake, leads connection





#### Main

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

Complementary

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Maximum mechanical speed	5000 rpm
[Us] rated supply voltage	220 V 110 V
Network number of phases	Three phase Single phase
Continuous stall current	2.29 A
Continuous stall torque	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 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 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 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 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	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
Shaft end	Smooth shaft
Shaft diameter	14 mm
Shaft length	30 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	With
Holding torque	2.5 N.m built-in
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	0.72 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	152 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	2.8 kg

#### Environment

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient air temperature for operation	040 °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	3.21 kg	

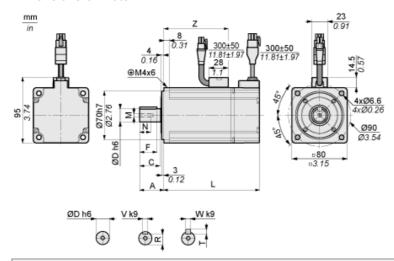
### Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☐ REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	China RoHS Declaration	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	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	

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#### **Dimensions**

#### **Dimensions of Motor**

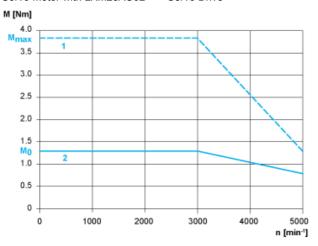


	mm	in.
L (without holding brake)	112	4.41
L (with holding brake)	152	5.98
A	30	1.18
С	24.5	0.96
D	14	0.55
F	20	0.79
R	11	0.43
Т	5	0.2
V	5	0.2
W	5	0.2
Z	68	2.68

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

#### Servo Motor with LXM28AU02●●● Servo Drive



1: Peak torque

2: Continuous torque