BCH2LH1030CA6C

servo motor BCH, Lexium 28, 100mm, 1000W, 2.4kg.cm², without oil seal, smooth, straight connection





Main

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

Complementary

Complementary		
Maximum mechanical speed	5000 rpm	
[Us] rated supply voltage	220 V	
Network number of phases	Single phase Three phase	
Continuous stall current	5.83 A	
Continuous stall torque	3.18 N.M for LXM28 at 7 A, 220 V, single phase 3.18 N.m for LXM28 at 7 A, 220 V, three phase	
Continuous power	1000 W	
Peak stall torque	9.54 N.M for LXM28 at 7 A, 220 V, single phase 9.54 N.m for LXM28 at 7 A, 220 V, three phase	
Nominal output power	1000 W for LXM28 at 7 A, 220 V, single phase 1000 W for LXM28 at 7 A, 220 V, three phase	
Nominal torque	3.18 N.M for LXM28 at 7 A, 220 V, single phase 3.18 N.m for LXM28 at 7 A, 220 V, three phase	
Nominal speed	3000 rpm for LXM28 at 7 A, 220 V, single phase 3000 rpm for LXM28 at 7 A, 220 V, three phase	
Maximum current Irms	18.9 A for LXM28 at 1 kW, 220 V	
Maximum permanent current	6.64 A	
Product compatibility	LXM28 servo drive motor at 1 kW, 220 V, single phase LXM28 servo drive motor at 1 kW, 220 V, three phase	
Shaft end	Smooth shaft	
Shaft diameter	22 mm	
Shaft length	45 mm	
Feedback type	20 bits single turn absolute encoder	
Holding brake	Without	
Mounting support	Asian standard flange	
Motor flange size	100 mm	
Electrical connection	Connector MIL	
Torque constant	0.55 N.m/A at 20 °C	
Back emf constant	33 V/krpm at 20 °C	
Rotor inertia	2.4 kg.cm²	
Stator resistance	0.67 Ohm at 20 °C	
Stator inductance	4.2 mH at 20 °C	
Stator electrical time constant	6.27 ms at 20 °C	

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Maximum radial force Fr	570 N at 3000 rpm
Maximum axial force Fa	200 N
Brake pull-in power	10.4 W
Type of cooling	Natural convection
Length	153.5 mm
Number of motor stacks	1
Centring collar diameter	95 mm
Centring collar depth	7 mm
Number of mounting holes	4
Mounting holes diameter	9.2 mm
Circle diameter of the mounting holes	115 mm
Distance shaft shoulder-flange	7 mm
Net weight	4.6 kg

Environment

IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient air temperature for operation	-2040 °C

Packing Units

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Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	18.1 cm	
Package 1 Width	23.0 cm	
Package 1 Length	36.0 cm	
Package 1 Weight	6.47 kg	

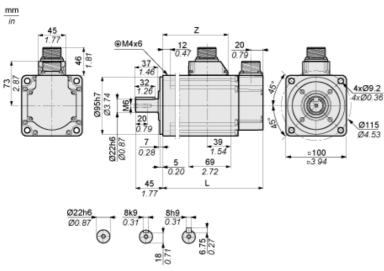
Offer Sustainability

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

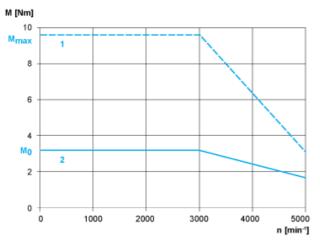


	mm	in.
L (without holding brake)	153.5	6.04
L (with holding brake)	180.5	7.11
Z	96	3.78

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

Servo Motor with LXM28AU10●●● Servo Drive



1: Peak torque

2: Continuous torque