Product datasheet





servo motor BCH, Lexium 28, 80mm, 750W, 1.54kg.cm², without oil seal, smooth, leads connection

BCH2HF0730CA5C

! Discontinued on: Aug 27, 2020

! Discontinued

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
	110 V
Network number of phases	Three phase
	Single phase
Continuous stall current	4.01 A
Continuous stall torque	2.39 N.m for LXM28 at 4.5 A, 220 V, single phase
	2.39 N.m for LXM28 at 4.5 A, 220 V, three phase
	2.39 N.m for LXM28 at 9 A, 110 V, single phase
Continuous power	750 W
Peak stall torque	7.16 N.m for LXM28 at 4.5 A, 220 V, single phase
	7.16 N.m for LXM28 at 4.5 A, 220 V, three phase
	7.16 N.m for LXM28 at 9 A, 110 V, single phase
Nominal output power	750 W for LXM28 at 4.5 A, 220 V, single phase
	750 W for LXM28 at 4.5 A, 220 V, three phase
	750 W for LXM28 at 9 A, 110 V, single phase
Nominal torque	2.39 N.m for LXM28 at 4.5 A, 220 V, single phase
	2.39 N.m for LXM28 at 4.5 A, 220 V, three phase
	2.39 N.m for LXM28 at 9 A, 110 V, single phase
Nominal speed	3000 rpm for LXM28 at 4.5 A, 220 V, single phase
	3000 rpm for LXM28 at 4.5 A, 220 V, three phase
	3000 rpm for LXM28 at 9 A, 110 V, single phase
Maximum current Irms	13.23 A for LXM28 at 0.75 kW, 220 V
	13.23 A for LXM28 at 0.75 kW, 110 V
Maximum permanent current	4.29 A
Product compatibility	LXM28 servo drive motor at 0.75 kW, 220 V, single phase
	LXM28 servo drive motor at 0.75 kW, 220 V, three phase
	LXM28 servo drive motor at 0.75 kW, 110 V, single phase
Shaft end	Smooth shaft
Shaft diameter	19 mm
Shaft length	35 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	0.6 N.m/A at 20 °C
Back emf constant	36 V/krpm at 20 °C
Rotor inertia	1.54 kg.cm ²
Stator resistance	1.5 Ohm at 20 °C
Stator inductance	6.1 mH at 20 °C
Stator electrical time constant	4.07 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	138 mm
Number of motor stacks	2
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	2.9 kg

Environment

IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient air temperature for operation	-2040 °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	3.48 kg
Unit Type of Package 2	S03
Number of Units in Package 2	2
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	7.54 kg



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc	
②	Mercury Free	
Ø	Rohs Exemption Information	Yes
⊘	Pvc Free	

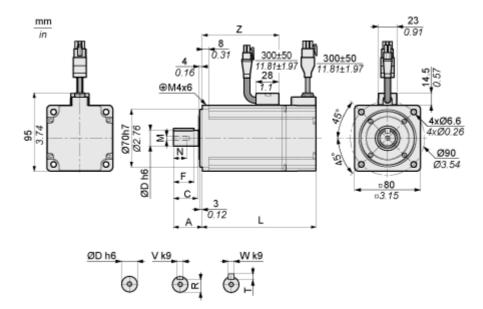
Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

Dimensions Drawings

Dimensions

Dimensions of Motor



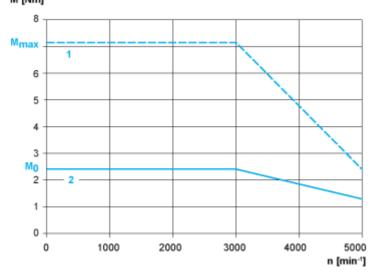
	mm	in.
L (without holding brake)	138	5.43
L (with holding brake)	178	7.01
A	35	1.38
С	29.5	1.16
D	19	0.75
F	25	0.98
R	15.5	0.61
Т	6	0.24
V	6	0.24
W	6	0.24
Z	93	3.66

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Performance Curves

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

Servo Motor with LXM28AU04●●● Servo Drive M [Nm]



- 1: Peak torque
- 2: Continuous torque