

Product datasheet

Specifications



servo motor BCH, Lexium 28,
80mm, 750W, 1.19kg.cm², without
oil seal, smooth, leads connection

BCH2LF0730CA5C

⚠ Discontinued on: 30 Jun 2023

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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	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

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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	1.19 kg.cm²
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	2.8 kg
Sizing reference	BCH2
Network number of phases	1
Accuracy error [angular]	0.044 °
Temperature copper hot	135 °C
Temperature magnet hot	100 °C
Temperature magnet rt	20 °C

Environment

IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
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	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

Contractual warranty

Warranty (in months)	18
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Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint	
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
PVC free	Yes

Use Longer

Lifetime extension	
Repair	No

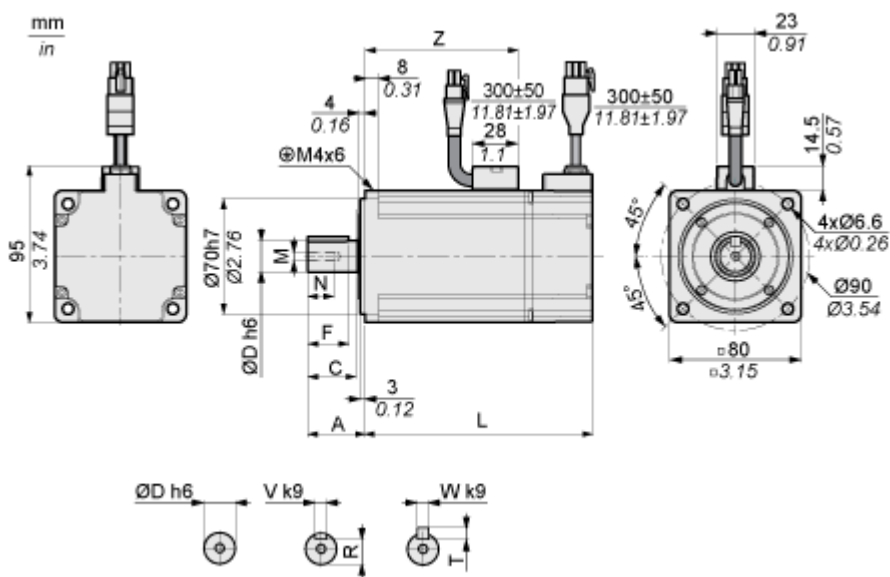
Use Again

Repack and remanufacture	
End of life manual availability	End of Life Information

Dimensions Drawings

Dimensions

Dimensions of Motor

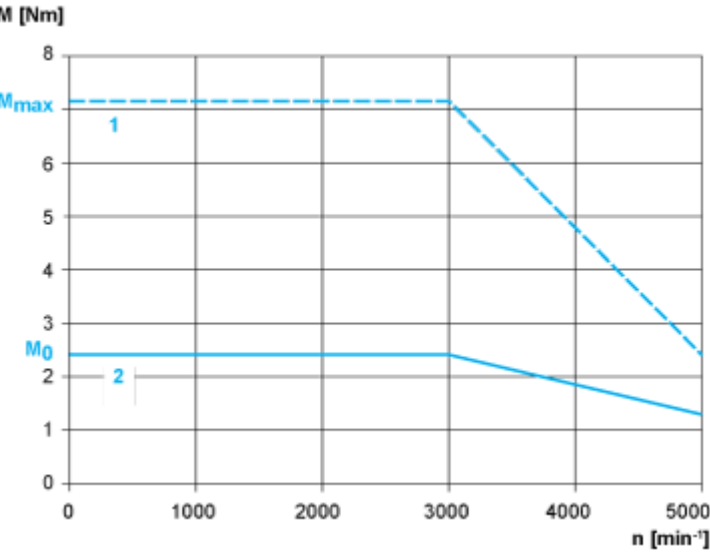


	mm	in.
L (without holding brake)	138	5.43
L (with holding brake)	178	7.01
A	35	1.38
C	29.5	1.16
D	19	0.75
F	25	0.98
R	15.5	0.61
T	6	0.24
V	6	0.24
W	6	0.24
Z	93	3.66

Performance Curves

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

Servo Motor with LXM28AU02 Servo Drive



- 1 : Peak torque
- 2 : Continuous torque