

Product data sheet

Specifications



servo motor BCH, Lexium 28,
80mm, 750W, 1.59kg.cm², with oil
seal, smooth, brake, leads
connection

BCH2HF0732CF5C

! Discontinued

! Discontinued on: Jun 30, 2023

**Product availability: Non-Stock - Not normally stocked in
distribution facility**

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
Phase	Single phase Three phase
Continuous stall current	4.01 A
Continuous stall torque	21.15 lbf.in (2.39 N.m) LXM28 4.5 A, 220 V, single phase 21.15 lbf.in (2.39 N.m) LXM28 4.5 A, 220 V, three phase 21.15 lbf.in (2.39 N.m) LXM28 9 A, 110 V, single phase
Continuous power	750 W
Peak stall torque	63.37 lbf.in (7.16 N.m) LXM28... 4.5 A, 220 V, single phase 63.37 lbf.in (7.16 N.m) LXM28... 4.5 A, 220 V, three phase 63.37 lbf.in (7.16 N.m) LXM28... 9 A, 110 V, single phase
Nominal output power	750 W LXM28... 4.5 A, 220 V, single phase 750 W LXM28... 4.5 A, 220 V, three phase 750 W LXM28... 9 A, 110 V, single phase
Nominal torque	21.15 lbf.in (2.39 N.m) LXM28... 4.5 A, 220 V, single phase 21.15 lbf.in (2.39 N.m) LXM28... 4.5 A, 220 V, three phase 21.15 lbf.in (2.39 N.m) LXM28... 9 A, 110 V, single phase
Nominal speed	3000 rpm LXM28... 4.5 A, 220 V, single phase 3000 rpm LXM28... 4.5 A, 220 V, three phase 3000 rpm LXM28... 9 A, 110 V, single phase
Maximum current Irms	13.23 A LXM28... 0.75 kW, 220 V 13.23 A LXM28... 0.75 kW, 110 V
Maximum permanent current	4.29 A
Product compatibility	LXM28... servo drive 0.75 kW, 220 V, single phase LXM28... servo drive 0.75 kW, 220 V, three phase LXM28... servo drive 0.75 kW, 110 V, single phase
Shaft end	Smooth shaft
Shaft diameter	0.7 in (19 mm)
Shaft length	1.4 in (35 mm)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Feedback type	20 bits single turn absolute encoder
Holding brake	With
Holding torque	22.1 lbf.in (2.5 N.m) built-in
Mounting Support	Asian standard flange
Motor flange size	3.1 in (80 mm)
Electrical connection	Free lead
Torque constant	0.6 N.m/A 68 °F (20 °C)
Back emf constant	36 V/krpm 68 °F (20 °C)
Rotor inertia	1.59 kg.cm²
Stator resistance	1.5 Ohm 68 °F (20 °C)
Stator inductance	6.1 mH 68 °F (20 °C)
Stator electrical time constant	4.07 ms 68 °F (20 °C)
Maximum radial force Fr	332 N 3000 rpm
Maximum axial force Fa	115 N
Brake pull-in power	10.2 W
Type of cooling	Natural convection
Length	7.008 in (178 mm)
Number of motor stacks	2
Centring collar diameter	2.8 in (70 mm)
Centring collar depth	0.2 in (4 mm)
Number of mounting holes	4
Mounting holes diameter	0.3 in (6.6 mm)
Circle diameter of the mounting holes	3.5 in (90 mm)
Distance shaft shoulder-flange	0.2 in (4 mm)
Net Weight	8.2 lb(US) (3.7 kg)
Sizing reference	BCH2
Network number of phases	1
Accuracy error [angular]	0.044 °
Temperature copper hot	275 °F (135 °C)
Temperature magnet hot	212 °F (100 °C)
Temperature magnet rt	68 °F (20 °C)

Environment

IP Degree of Protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient Air Temperature for Operation	32...104 °F (0...40 °C)

Ordering and shipping details

Category	US1PC5318281
Discount Schedule	PC53
GTIN	3606480733772

Returnability	No
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Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	5.4 in (13.8 cm)
Package 1 Width	6.9 in (17.5 cm)
Package 1 Length	11.7 in (29.6 cm)
Package weight(Lbs)	9.28 lb(US) (4.21 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

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)

California proposition 65

WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

Circularity Profile

[End of Life Information](#)

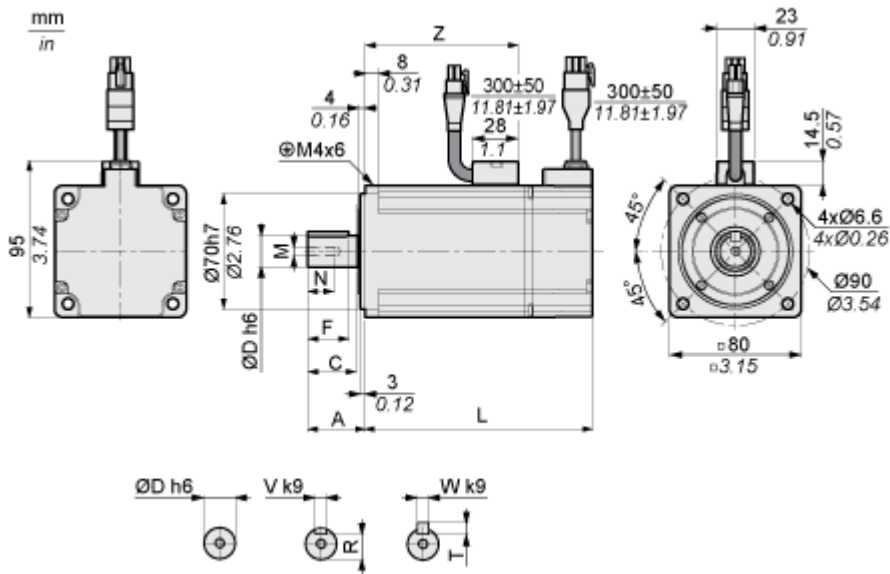
Product data sheet

BCH2HF0732CF5C

Dimensions Drawings

Dimensions

Dimensions of Motor

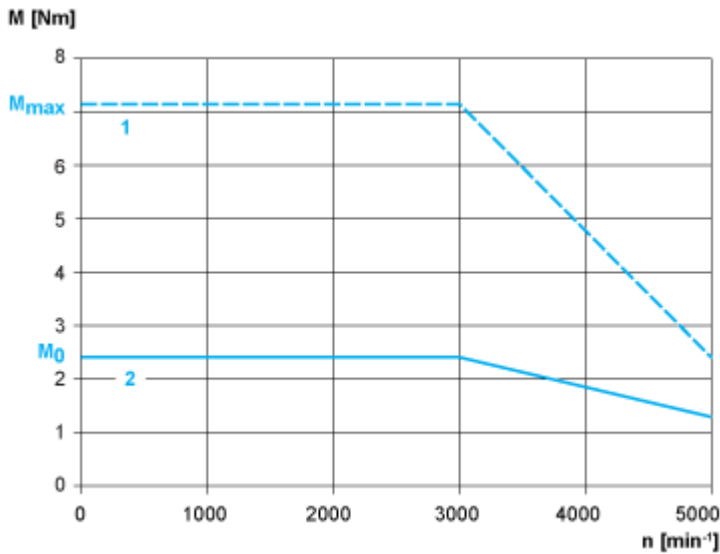


	mm	in.
L (without holding brake)	138	5.43
L (with holding brake)	178	7.01
A	35	1.38
C	29.5	1.16
D	19	0.75
F	25	0.98
R	15.5	0.61
T	6	0.24
V	6	0.24
W	6	0.24
Z	93	3.66

Performance Curves

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

Servo Motor with LXM28AU04 Servo Drive



- 1 : Peak torque
- 2 : Continuous torque