Product data sheet

Specifications



servo motor BCH, Lexium 28, 130mm, 600W, 6.91kg.cm², with oil seal, with key, brake, straight connection

BCH2MM0613CF6C

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	3000 rpm
[Us] rated supply voltage	220 V 110 V
Phase	Single phase Three phase
Continuous stall current	3.77 A
Continuous stall torque	50.71 lbf.in (5.73 N.m) LXM26D 4.5 A, 220 V, single phase 50.71 lbf.in (5.73 N.m) LXM26D 4.5 A, 220 V, three phase 50.71 lbf.in (5.73 N.m) LXM28 4.5 A, 220 V, single phase 50.71 lbf.in (5.73 N.m) LXM28 4.5 A, 220 V, three phase 50.71 lbf.in (5.73 N.m) LXM28 9 A, 110 V, single phase
Continuous power	600 W
Peak stall torque	152.14 lbf.in (17.19 N.m) LXM26D 4.5 A, 220 V, single phase 152.14 lbf.in (17.19 N.m) LXM26D 4.5 A, 220 V, three phase 152.14 lbf.in (17.19 N.m) LXM28... 4.5 A, 220 V, single phase 152.14 lbf.in (17.19 N.m) LXM28... 4.5 A, 220 V, three phase 152.14 lbf.in (17.19 N.m) LXM28... 9 A, 110 V, single phase
Nominal output power	600 W LXM26D 4.5 A, 220 V, single phase 600 W LXM26D 4.5 A, 220 V, three phase 600 W LXM28... 4.5 A, 220 V, single phase 600 W LXM28... 4.5 A, 220 V, three phase 600 W LXM28... 9 A, 110 V, single phase
Nominal torque	50.71 lbf.in (5.73 N.m) LXM26D 4.5 A, 220 V, single phase 50.71 lbf.in (5.73 N.m) LXM26D 4.5 A, 220 V, three phase 50.71 lbf.in (5.73 N.m) LXM28... 4.5 A, 220 V, single phase 50.71 lbf.in (5.73 N.m) LXM28... 4.5 A, 220 V, three phase 50.71 lbf.in (5.73 N.m) LXM28... 9 A, 110 V, single phase
Nominal speed	1000 rpm LXM26D 4.5 A, 220 V, single phase 1000 rpm LXM26D 4.5 A, 220 V, three phase 1000 rpm LXM28... 4.5 A, 220 V, single phase 1000 rpm LXM28... 4.5 A, 220 V, three phase 1000 rpm LXM28... 9 A, 110 V, single phase
Maximum current Irms	13.44 A LXM28... 0.6 kW, 220 V 13.44 A LXM28... 0.6 kW, 110 V
Maximum permanent current	4.1 A

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

Product compatibility	LXM26D servo drive 0.6 kW, 220 V, single phase LXM26D servo drive 0.6 kW, 220 V, three phase LXM28... servo drive 0.6 kW, 220 V, single phase LXM28... servo drive 0.6 kW, 220 V, three phase LXM28... servo drive 0.6 kW, 110 V, single phase
Shaft end	Keyed
Shaft diameter	0.9 in (22 mm)
Shaft length	1.8 in (45 mm)
key width	0.3 in (8 mm)
Feedback type	20 bits single turn absolute encoder
Holding brake	With
Holding torque	85.0 lbf.in (9.6 N.m) built-in
Mounting Support	Asian standard flange
Motor flange size	5.1 in (130 mm)
Electrical connection	Connector MIL
Torque constant	1.52 N.m/A 68 °F (20 °C)
Back emf constant	92 V/krpm 68 °F (20 °C)
Number of motor poles	5.0
Rotor inertia	6.91 kg.cm²
Stator resistance	1.93 Ohm 68 °F (20 °C)
Stator inductance	24.9 mH 68 °F (20 °C)
Stator electrical time constant	12.9 ms 68 °F (20 °C)
Maximum radial force Fr	670 N 1000 rpm
Maximum axial force Fa	200 N
Brake pull-in power	19.7 W
type of cooling	Natural convection
Length	7.2 in (183 mm)
Number of motor stacks	1
Centring collar diameter	4.3 in (110 mm)
centring collar depth	0.3 in (8 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (9.2 mm)
Circle diameter of the mounting holes	5.7 in (145 mm)
Distance shaft shoulder-flange	0.3 in (8 mm)
Net Weight	18.08 lb(US) (8.2 kg)
Sizing reference	BCH2
Network number of phases	1
Accuracy error [angular]	0.044 °
Coefficient 1_1	-0.0000187500000003 N.m/rpm
Coefficient 1_2	0.000000000000000000562440546 N.m/rpm²
Coefficient 1_3	-0.000000000000000000000002965143 N.m/rpm3
Coefficient 1_4	0.000000000000000000000000000711 N.m/rpm4

Coefficient 1_5	-0.000000000000000000000000000078919 N.m/rpm5
Coefficient 1_6	0.0000000000000000000000000000000032 N.m/rpm6
Saturation coefficient 1	-0.000000000000000038243890773
Saturation coefficient 2	-0.0078140960163432
Saturation coefficient 3	0.000000000000000000158151428
Coefficient 2_0	0.0000000000 lbf.in (0 N.m)
Coefficient 2_1	0.00000875000000000026 N.m/rpm
Temperature copper hot	275 °F (135 °C)
Temperature magnet hot	212 °F (100 °C)
Temperature magnet rt	68 °F (20 °C)
Motor voltage drop coefficient	1

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	3606480734595
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.13 in (18.1 cm)
Package 1 Width	9.06 in (23 cm)
Package 1 Length	14.17 in (36 cm)
Package 1 Weight	330.2 oz (9360 g)

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

Carbon footprint (kg CO2 eq, Total Life cycle)	3331
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration
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
PVC free	Yes

Use Again

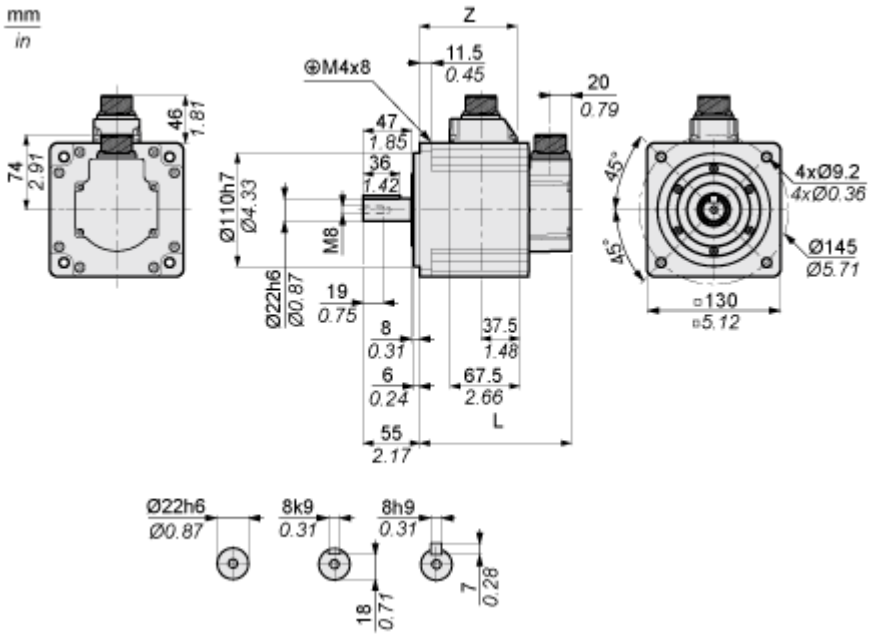
Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	No

Dimensions Drawings

Dimensions

Dimensions of Motor

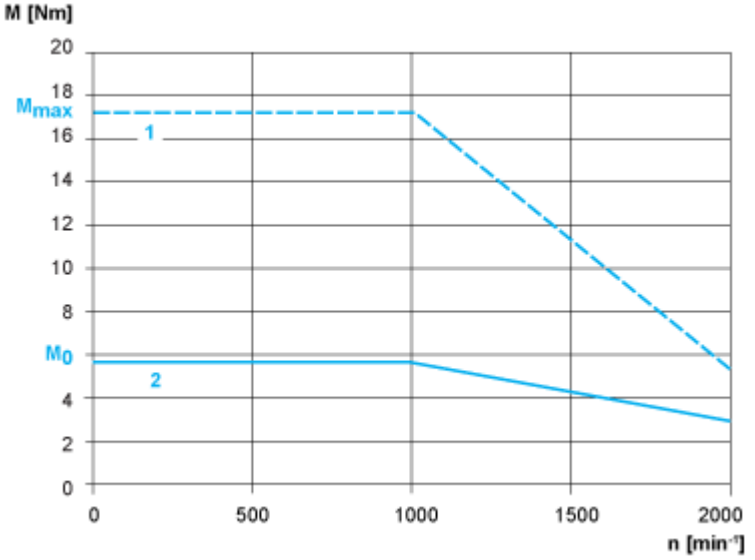


	mm	in.
L (without holding brake)	147	5.79
L (with holding brake)	183	7.2
Z	94.5	3.72

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