

BCH2LF0430CF5C

servo motor BCH, Lexium 28, 80mm,
400W, without oil seal, smooth, brake, leads
connection



Main

Range Compatibility	Lexium 28
Product or Component Type	Servo motor
Device short name	BCH2

Complementary

Maximum mechanical speed	5000 rpm
[Us] rated supply voltage	220 V 110 V
Phase	Single phase Three phase
Continuous stall current	2.29 A
Continuous stall torque	11.24 Lbf.in (1.27 N.m) LXM28... 2.6 A, 220 V, single phase 11.24 Lbf.in (1.27 N.m) LXM28... 2.6 A, 220 V, three phase 11.24 lbf.in (1.27 N.m) LXM28... 5.7 A, 110 V, single phase
Continuous power	400 W
Peak stall torque	33.72 Lbf.in (3.81 N.m) LXM28... 2.6 A, 220 V, single phase 33.72 Lbf.in (3.81 N.m) LXM28... 2.6 A, 220 V, three phase 33.72 lbf.in (3.81 N.m) LXM28... 5.7 A, 110 V, single phase
Nominal output power	400 W LXM28... 2.6 A, 220 V, single phase 400 W LXM28... 2.6 A, 220 V, three phase 400 W LXM28... 5.7 A, 110 V, single phase
Nominal torque	11.24 Lbf.in (1.27 N.m) LXM28... 2.6 A, 220 V, single phase 11.24 Lbf.in (1.27 N.m) LXM28... 2.6 A, 220 V, three phase 11.24 lbf.in (1.27 N.m) LXM28... 5.7 A, 110 V, single phase
Nominal speed	3000 rpm LXM28... 2.6 A, 220 V, single phase 3000 rpm LXM28... 2.6 A, 220 V, three phase 3000 rpm LXM28... 5.7 A, 110 V, single phase
Maximum current Irms	7.73 A LXM28... 0.4 kW, 220 V 7.73 A LXM28... 0.4 kW, 110 V
Maximum permanent current	2.52 A
Product compatibility	LXM28... servo drive 0.4 kW, 220 V, single phase LXM28... servo drive 0.4 kW, 220 V, three phase LXM28... servo drive 0.4 kW, 110 V, single phase
Shaft end	Smooth shaft
Shaft diameter	0.55 in (14 mm)
Shaft length	1.18 in (30 mm)
Feedback type	20 bits single turn absolute encoder
Holding brake	With
Holding torque	22.13 lbf.in (2.5 N.m) built-in
Mounting Support	Asian standard flange
Motor flange size	3.15 in (80 mm)
Electrical connection	Free lead

Torque constant	0.55 N.m/A 68 °F (20 °C)
Back emf constant	33.5 V/krpm 68 °F (20 °C)
Rotor inertia	0.72 kg.cm ²
Stator resistance	3.2 Ohm 68 °F (20 °C)
Stator inductance	11.3 mH 68 °F (20 °C)
Stator electrical time constant	3.53 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	5.98 in (152 mm)
Number of motor stacks	1
Centring collar diameter	2.76 in (70 mm)
Centring collar depth	0.16 in (4 mm)
Number of mounting holes	4
Mounting holes diameter	0.26 in (6.6 mm)
Circle diameter of the mounting holes	3.54 in (90 mm)
Distance shaft shoulder-flange	0.16 in (4 mm)
Product Weight	6.17 lb(US) (2.8 kg)

Environment

IP Degree of Protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient Air Temperature for Operation	32...104 °F (0...40 °C)

Ordering and shipping details

Category	18281-LEXIUM 23/28 MOTORS
Discount Schedule	PC53
GTIN	3606480733659
Returnability	No
Country of origin	CN

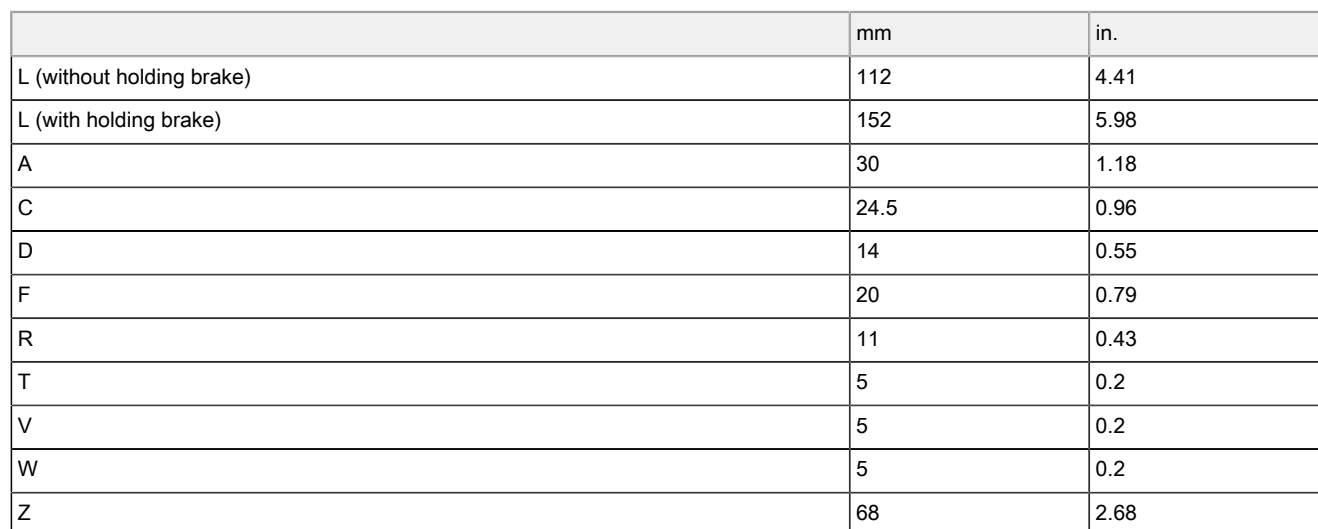
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.51 in (14.000 cm)
Package 1 Width	6.89 in (17.500 cm)
Package 1 Length	11.81 in (30.000 cm)
Package 1 Weight	7.34 lb(US) (3.330 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	2
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	15.61 lb(US) (7.080 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	16
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	31.50 in (80.000 cm)
Package 3 Length	23.62 in (60.000 cm)
Package 3 Weight	142.51 lb(US) (64.640 kg)

Offer Sustainability

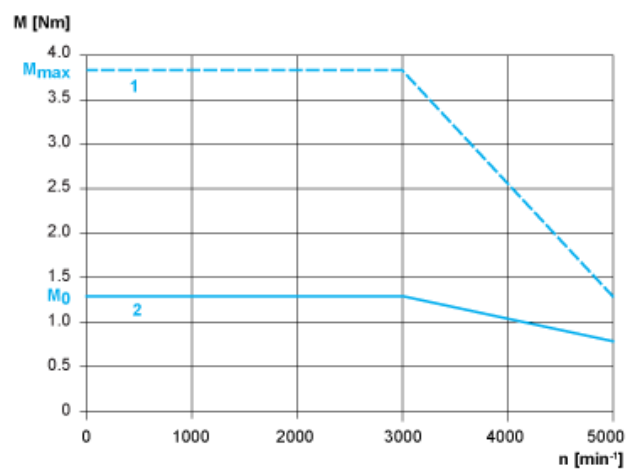
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
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.

Dimensions of Motor



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

Servo Motor with LXM28AU02●●● Servo Drive



- 1 : Peak torque
2 : Continuous torque