Product data sheet





servo motor BCH, Lexium 28, 130mm, 1500W, without oil seal, smooth, brake, straight connection

BCH2MM1520CF6C

! Discontinued on: Oct 9, 2023

! Discontinued

Main

Range compatibility	Lexium 28
Device short name	BCH2
Product or component type	Serve motor

Complementary

<u> </u>		
Maximum mechanical speed	3000 rpm	
[Us] rated supply voltage	220 V	
Network number of phases	Three phase Single phase	
Continuous stall current	6.18 A	
Continuous stall torque	63.37 lbf.in (7.16 N.m) LXM28 7 A, 220 V, single phase 63.37 lbf.in (7.16 N.m) LXM28 7 A, 220 V, three phase	
Continuous power	1500 W	
Peak stall torque	190.11 lbf.in (21.48 N.m) LXM28 7 A, 220 V, single phase 190.11 lbf.in (21.48 N.m) LXM28 7 A, 220 V, three phase	
Nominal output power	1500 W LXM28 7 A, 220 V, single phase 1500 W LXM28 7 A, 220 V, three phase	
Nominal torque	63.37 lbf.in (7.16 N.m) LXM28 7 A, 220 V, single phase 63.37 lbf.in (7.16 N.m) LXM28 7 A, 220 V, three phase	
Nominal speed	2000 rpm LXM28 7 A, 220 V, single phase 2000 rpm LXM28 7 A, 220 V, three phase	
Maximum current Irms	20.31 A LXM28 1.5 kW, 220 V	
Maximum permanent current	6.74 A	
Product compatibility	LXM28 servo drive 1.5 kW, 220 V, single phase LXM28 servo drive 1.5 kW, 220 V, three phase	
Shaft end	Smooth shaft	
Shaft diameter	0.9 in (22 mm)	
Shaft length	2.2 in (55 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	1.16 N.m/A 68 °F (20 °C)	
Back emf constant	70 V/krpm 68 °F (20 °C)	
Rotor inertia	10 kg.cm²	
Stator resistance	0.64 Ohm 68 °F (20 °C)	
Stator inductance	6.4 mH 68 °F (20 °C)	
Stator electrical time constant	10 ms 68 °F (20 °C)	
Maximum radial force Fr	670 N 2000 rpm	
Maximum axial force Fa	200 N	
Brake pull-in power	19.7 W	
Type of cooling	Natural convection	
Length	8.0 in (202 mm)	
Number of motor stacks	3	
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	19.4 lb(US) (8.8 kg)	

Environment

IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient air temperature for operation	32104 °F (040 °C)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.1 in (18.1 cm)
Package 1 Width	9.06 in (23.0 cm)
Package 1 Length	14.2 in (36.0 cm)
Package 1 Weight	21 69 lb(US) (9 84 kg)



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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

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

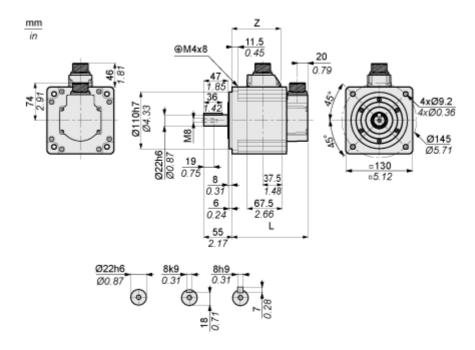
Certifications & Standards

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)	167	6.57
L (with holding brake)	202	7.95
Z	114.5	4.51

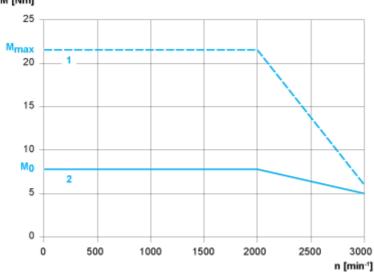
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Performance Curves

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

Servo Motor with LXM28AU15●●● Servo Drive M [Nm]



- 1: Peak torque
- 2: Continuous torque