Product data sheet





Servo motor

servo motor BCH, Lexium 28, 130mm, 2000W, without oil seal, with key, brake, straight connection

BCH2MM2021CF6C



(!) Discontinued on: Jun 30, 2023



Main Range compatibility Lexium 28 Device short name BCH2

Complementary

Product or component type

•	
Maximum mechanical speed	3000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Three phase
Continuous stall current	9.95 A
Continuous stall torque	84.52 lbf.in (9.55 N.m) LXM28 12 A, 220 V, three phase
Continuous power	2000 W
Peak stall torque	253.57 lbf.in (28.65 N.m) LXM28 12 A, 220 V, three phase
Nominal output power	2000 W LXM28 12 A, 220 V, three phase
Nominal torque	84.52 lbf.in (9.55 N.m) LXM28 12 A, 220 V, three phase
Nominal speed	2000 rpm LXM28 12 A, 220 V, three phase
Maximum current Irms	32.85 A LXM28 2 kW, 220 V
Maximum permanent current	11.25 A
Product compatibility	LXM28 servo drive 2 kW, 220 V, three phase
Shaft end	Keyed
Shaft diameter	0.9 in (22 mm)
Shaft length	2.2 in (55 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	0.96 N.m/A 68 °F (20 °C)
Back emf constant	58 V/krpm 68 °F (20 °C)

Rotor inertia	14.1 kg.cm²
Stator resistance	0.34 Ohm 68 °F (20 °C)
Stator inductance	4.5 mH 68 °F (20 °C)
Stator electrical time constant	13.24 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	8.5 in (216 mm)
Number of motor stacks	4
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	24.3 lb(US) (11 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	22.51 lb(US) (10.21 kg)	



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Transparency RoHS/REACh

Well-being performance

	Reach Free Of Svhc	
⊘	Mercury Free	
②	Rohs Exemption Information	Yes

Certifications & Standards

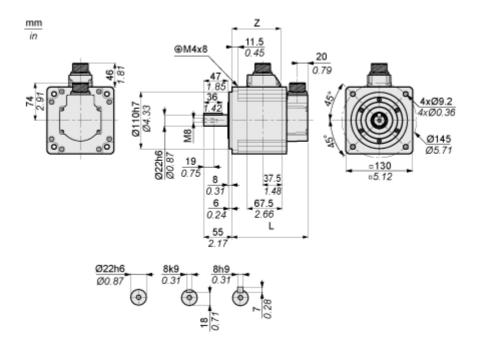
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Circularity Profile	End of Life Information	

BCH2MM2021CF6C

Dimensions Drawings

Dimensions

Dimensions of Motor



	mm	in.
L (without holding brake)	187	7.36
L (with holding brake)	216	8.5
Z	134.5	5.30

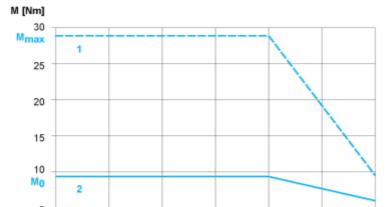
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Performance Curves

Torque/Speed Curves with 230 V Three Phase Supply Voltage

Servo Motor with LXM28AU20●●● Servo Drive



1500

2000

2500

3000 n [min-1]

1: Peak torque

0

2: Continuous torque

500

1000