Product data sheet





servo motor BCH, Lexium 28, 180mm, 2000W, without oil seal, with key, straight connection

BCH2MR2021CA6C

! Discontinued on: Jun 30, 2023



Main

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

Complementary

Maximum mechanical speed	3000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Three phase
Continuous stall current	8.75 A
Continuous stall torque	84.52 lbf.in (9.55 N.m) LXM28 12 A, 220 V, three phase 84.52 lbf.in (9.55 N.m)
Continuous power	2000 W
Peak stall torque	253.57 lbf.in (28.65 N.m) LXM28 12 A, 220 V, three phase 253.57 lbf.in (28.65 N.m)
Nominal output power	2000 W LXM28 12 A, 220 V, three phase 2000 W
Nominal torque	84.52 lbf.in (9.55 N.m) LXM28 12 A, 220 V, three phase 84.52 lbf.in (9.55 N.m)
Nominal speed	2000 rpm 2000 rpm LXM28 12 A, 220 V, three phase
Maximum current Irms	35.4 A 2 kW, 220 V
Maximum permanent current	9.6 A
Product compatibility	LXM28 servo drive 2 kW, 220 V, three phase
Shaft end	Keyed
Shaft diameter	1.4 in (35 mm)
Shaft length	3.1 in (79 mm)
Key width	0.4 in (10 mm)
Feedback type	20 bits single turn absolute encoder
Holding brake	Without
mounting support	Asian standard flange
Motor flange size	7.09 in (180 mm)
Electrical connection	Connector MIL
Torque constant	1.09 N.m/A 68 °F (20 °C)

66 V/krpm 68 °F (20 °C)
26.5 kg.cm ²
0.572 Ohm 68 °F (20 °C)
8.86 mH 68 °F (20 °C)
15.49 ms 68 °F (20 °C)
1200 N 2000 rpm
497 N
49.6 W
Natural convection
6.7 in (169 mm)
1
4.5 in (114.3 mm)
0.2 in (4 mm)
4
0.5 in (13.5 mm)
7.9 in (200 mm)
0.2 in (4 mm)
28.7 lb(US) (13 kg)

Environment

IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient air temperature for operation	-4104 °F (-2040 °C)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.6 in (24.5 cm)
Package 1 Width	11.4 in (29.0 cm)
Package 1 Length	23.03 in (58.5 cm)
Package 1 Weight	33.47 lb(US) (15.18 kg)



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Transparency RoHS/REACh

Well-being performance

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

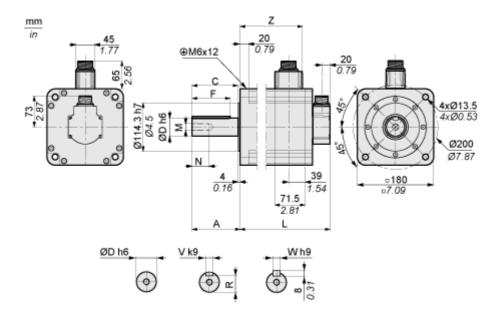
Certifications & Standards

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	

Dimensions Drawings

Dimensions

Dimensions of Motor



	mm	in.
L (without holding brake)	169	6.65
L (with holding brake)	203	7.99
A	79	3.11
С	73	2.87
D	35	1.38
F	63	2.48
N	28	1.10
М	M12	
R	30	1.18
V	10	0.39
W	10	0.39
Z	103	4.06

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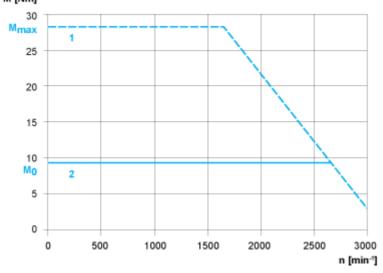
BCH2MR2021CA6C

Performance Curves

Torque/Speed Curves with 230 V Three Phase Supply Voltage

Servo Motor with LXM28AU20●●● Servo Drive

M [Nm]



1: Peak torque

2: Continuous torque