Product datasheet

Specification





servo motor BCH - 180mm - 2000W - w oil seal - w key - straight con

BCH2MR2023CA6C

Main

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

Complementary

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	9.55 N.m for LXM26D at 12 A, 220 V, three phase 9.55 N.m for LXM28 at 12 A, 220 V, three phase 9.55 N.m	
Continuous power	2000 W	
Peak stall torque	28.65 N.m for LXM26D at 12 A, 220 V, three phase 28.65 N.m for LXM28 at 12 A, 220 V, three phase 28.65 N.m	
Nominal output power	2000 W for LXM26D at 12 A, 220 V, three phase 2000 W for LXM28 at 12 A, 220 V, three phase 2000 W	
Nominal torque	9.55 N.m for LXM26D at 12 A, 220 V, three phase 9.55 N.m for LXM28 at 12 A, 220 V, three phase 9.55 N.m	
Nominal speed	2000 rpm 2000 rpm for LXM26D at 12 A, 220 V, three phase 2000 rpm for LXM28 at 12 A, 220 V, three phase	
Maximum current Irms	35.4 A at 2 kW, 220 V 35.4 A for LXM28 at 2 kW, 220 V	
Maximum permanent current	9.6 A	
Product compatibility	LXM26D servo drive motor at 2 kW, 220 V, three phase LXM28 servo drive motor at 2 kW, 220 V, three phase	
Shaft end	Keyed	
Shaft diameter	35 mm	
Shaft length	79 mm	
Key width	10 mm	
Feedback type	20 bits single turn absolute encoder	
Holding brake	Without	
mounting support	Asian standard flange	

Motor flange size	180 mm
Electrical connection	Connector MIL
Torque constant	1.09 N.m/A at 20 °C
Back emf constant	66 V/krpm at 20 °C
Rotor inertia	26.5 kg.cm²
Stator resistance	0.572 Ohm at 20 °C
Stator inductance	8.86 mH at 20 °C
Stator electrical time constant	15.49 ms at 20 °C
Maximum radial force Fr	1200 N at 2000 rpm
Maximum axial force Fa	497 N
Brake pull-in power	49.6 W
Type of cooling	Natural convection
Length	169 mm
Number of motor stacks	1
Centring collar diameter	114.3 mm
Centring collar depth	4 mm
Number of mounting holes	4
Mounting holes diameter	13.5 mm
Circle diameter of the mounting holes	200 mm
Distance shaft shoulder-flange	4 mm
Net weight	13 kg

Environment

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1	
Ambient air temperature for operation	-2040 °C	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	24.5 cm
Package 1 Width	29 cm
Package 1 Length	58.5 cm
Package 1 Weight	15.18 kg



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Transparency RoHS/REACh

Well-being performance

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

Certifications & Standards

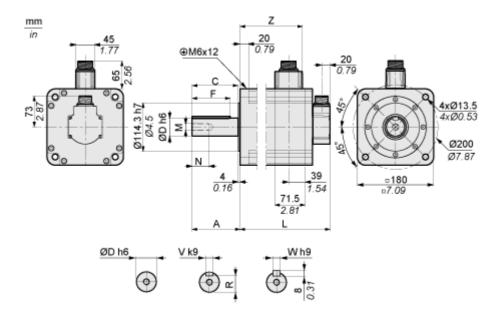
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste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

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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

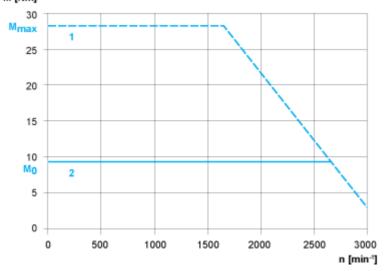
BCH2MR2023CA6C

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