Product datasheet





servo motor BCH, Lexium 28, 180mm, 3000W, 53.56kg.cm², without oil seal, with key, straight connection

BCH2MR3021CA6C



(!) Discontinued on: Aug 27, 2020



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

Complementary

•	
Maximum mechanical speed	3000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Three phase
Continuous stall current	16.33 A
Continuous stall torque	14.32 N.m for LXM28 at 19.8 A, 220 V, three phase
Continuous power	3000 W
Peak stall torque	42.97 N.m for LXM28 at 19.8 A, 220 V, three phase
Nominal output power	3000 W for LXM28 at 19.8 A, 220 V, three phase
Nominal torque	14.32 N.m for LXM28 at 19.8 A, 220 V, three phase
Nominal speed	2000 rpm for LXM28 at 19.8 A, 220 V, three phase
Maximum current Irms	53.9 A for LXM28 at 3 kW, 220 V
Maximum permanent current	18.8 A
Product compatibility	LXM28 servo drive motor at 3 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	0.88 N.m/A at 20 °C
Back emf constant	53 V/krpm at 20 °C
Rotor inertia	53.56 kg.cm²

Stator resistance	0.131 Ohm at 20 °C
Stator inductance	2.7 mH at 20 °C
Stator electrical time constant	20.61 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	202 mm
Number of motor stacks	2
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	18.5 kg

Environment

IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
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	29.0 cm
Package 1 Length	58.5 cm
Package 1 Weight	20.18 kg



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Transparency RoHS/REACh

Well-being performance

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

Certifications & Standards

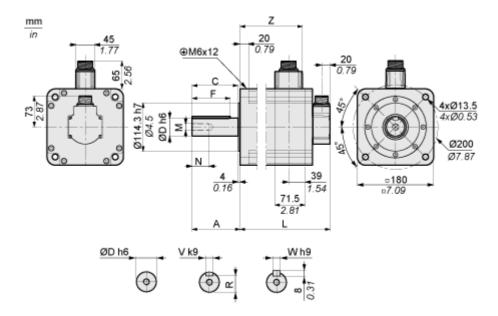
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish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

BCH2MR3021CA6C

Dimensions Drawings

Dimensions

Dimensions of Motor

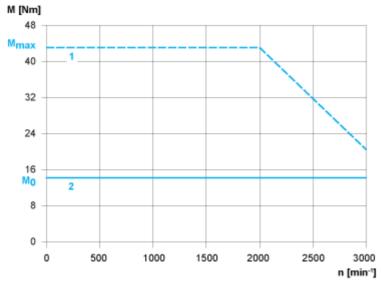


	mm	in.
L (without holding brake)	202	7.95
L (with holding brake)	235	9.25
A	79	3.11
С	73	2.87
D	35	1.38
F	63	2.48
N	28	1.10
М	M12	
R	30	1.18
V	10	0.39
W	10	0.39
Z	136	5.35

Performance Curves

Torque/Speed Curves with 230 V Three Phase Supply Voltage

Servo Motor with LXM28AU30●●● Servo Drive



- 1: Peak torque
- 2: Continuous torque