# **Product datasheet**

Specification





# servo motor BCH, 180mm, 2000W, w oil seal, smooth, straight con

BCH2MR2022CA6C

EAN Code: 3606480734724

## Main

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

## Complementary

o o in promontary		
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 LXM28 at 12 A, 220 V, three phase 9.55 N.m	
Continuous power	2000 W	
Peak stall torque	28.65 N.m for LXM28 at 12 A, 220 V, three phase 28.65 N.m	
Nominal output power	2000 W for LXM28 at 12 A, 220 V, three phase 2000 W	
Nominal torque	9.55 N.m for LXM28 at 12 A, 220 V, three phase 9.55 N.m	
Nominal speed	2000 rpm 2000 rpm for LXM28 at 12 A, 220 V, three phase	
Maximum current Irms	35.4 A at 2 kW, 220 V	
Maximum permanent current	9.6 A	
Product compatibility	LXM28 servo drive motor at 2 kW, 220 V, three phase	
Shaft end	Smooth shaft	
Shaft diameter	35 mm	
Shaft length	79 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	29.0 cm
Package 1 Length	58.5 cm
Package 1 Weight	15.18 kg

# **Contractual warranty**

Warranty	40
vvarranty	18 months



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Transparency RoHS/REACh

## Well-being performance

	Reach Free Of Svhc	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes

## **Certifications & Standards**

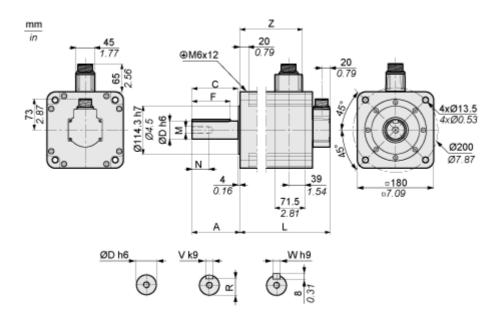
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste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

## BCH2MR2022CA6C

## **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

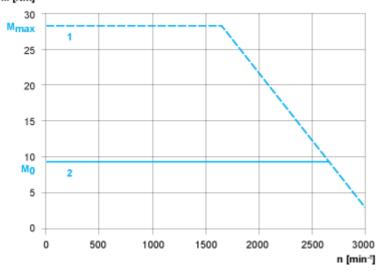
## BCH2MR2022CA6C

#### 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