

Product datasheet

Specifications



servo motor BCH, Lexium 28,
180mm, 3500W, 53.56kg.cm²,
without oil seal, with key, straight
connection

BCH2MR3521CA6C

! Discontinued

! Discontinued on: 27 Aug 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	16.55 A
Continuous stall torque	16.7 N.m for LXM28 at 22.9 A, 220 V, three phase
Continuous power	3500 W
Peak stall torque	50.3 N.m for LXM28... at 22.9 A, 220 V, three phase
Nominal output power	3500 W for LXM28... at 22.9 A, 220 V, three phase
Nominal torque	16.7 N.m for LXM28... at 22.9 A, 220 V, three phase
Nominal speed	2000 rpm for LXM28... at 22.9 A, 220 V, three phase
Maximum current Irms	57.8 A for LXM28... at 3.5 kW, 220 V
Maximum permanent current	19 A
Product compatibility	LXM28... servo drive motor at 3.5 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	1.01 N.m/A at 20 °C
Back emf constant	61 V/krpm at 20 °C
Rotor inertia	53.56 kg.cm ²

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Stator resistance	0.157 Ohm at 20 °C
Stator inductance	2.93 mH at 20 °C
Stator electrical time constant	18.66 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
Sizing reference	BCH2
Network number of phases	3
Accuracy error [angular]	0.044 °
Temperature copper hot	135 °C
Temperature magnet hot	100 °C
Temperature magnet rt	20 °C

Environment

IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient air temperature for operation	-20...40 °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

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Environmental Disclosure

[Product Environmental Profile](#)

Use Better



Materials and Packaging

EU RoHS Directive

[Compliant By Exemption](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

End of life manual availability

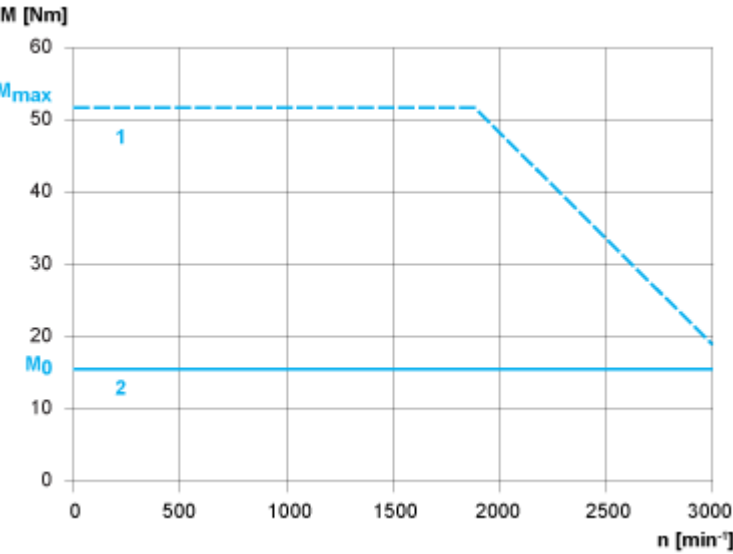
[End of Life Information](#)

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Performance Curves

Torque/Speed Curves with 230 V Single/Three Phase Supply Voltage

Servo Motor with LXM28AU45 Servo Drive



- 1 : Peak torque
- 2 : Continuous torque