

Product data sheet

Specifications



servo motor BCH, Lexium 28,
180mm, 3500W, 53.56kg.cm², with
oil seal, with key, straight connection

BCH2MR3523CA6C

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 LXM26D at 22.9 A, 220 V, three phase 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 LXM26D at 22.9 A, 220 V, three phase 50.3 N.m for LXM28... at 22.9 A, 220 V, three phase
Nominal output power	3500 W for LXM26D at 22.9 A, 220 V, three phase 3500 W for LXM28... at 22.9 A, 220 V, three phase
Nominal torque	16.7 N.m for LXM26D at 22.9 A, 220 V, three phase 16.7 N.m for LXM28... at 22.9 A, 220 V, three phase
Nominal speed	2000 rpm for LXM26D at 22.9 A, 220 V, three phase 2000 rpm for LXM28... at 22.9 A, 220 V, three phase
Maximum current Irms	57.8 A for LXM26D at 3.5 kW, 220 V 57.8 A for LXM28... at 3.5 kW, 220 V
Maximum permanent current	19 A
Product compatibility	LXM26D servo drive motor at 3.5 kW, 220 V, three phase 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

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

Back emf constant	61 V/krpm at 20 °C
Number of motor poles	5.0
Rotor inertia	53.56 kg.cm²
Stator resistance	0.157 Ohm at 20 °C
Stator inductance	2.57 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
Product 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	IP50 IM V3 IP65 IM B5, IM V1
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 cm
Package 1 Length	58.5 cm
Package 1 Weight	20180 g
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	50 cm

Package 2 Width	80 cm
Package 2 Length	60 cm
Package 2 Weight	90.7 kg

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	
Total lifecycle Carbon footprint	9170
Environmental Disclosure	Product Environmental Profile

Use Better

 Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	REACH Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

Use Again

 Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No

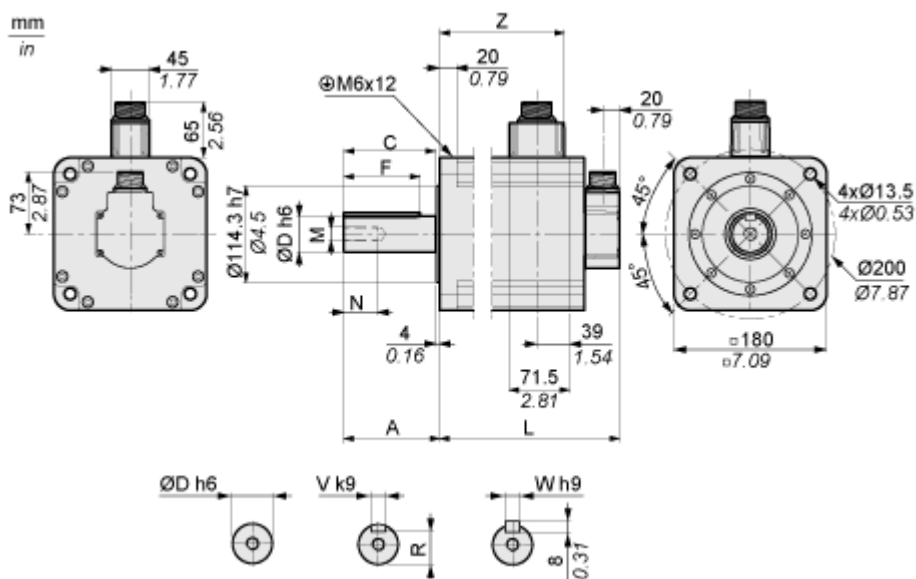
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Dimensions Drawings

Dimensions

Dimensions of Motor

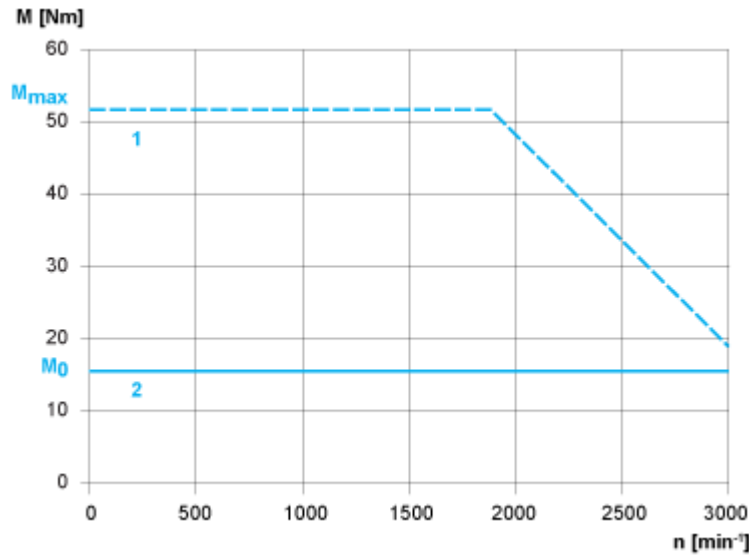


	mm	in.
L (without holding brake)	202	7.95
L (with holding brake)	235	9.25
A	79	3.11
C	73	2.87
D	35	1.38
F	63	2.48
N	28	1.10
M	M12	
R	30	1.18
V	10	0.39
W	10	0.39
Z	136	5.35

Performance Curves

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

Servo Motor with LXM28AU45 Servo Drive



- 1 : Peak torque
- 2 : Continuous torque