

Product datasheet

Specifications



servo motor BCH, Lexium 28,
130mm, 1500W, 9.7kg.cm², with oil
seal, with key, straight connection

BCH2MM1523CA6C

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	Single phase Three phase
Continuous stall current	6.18 A
Continuous stall torque	7.16 N.m for LXM26D at 7 A, 220 V, single phase 7.16 N.m for LXM26D at 7 A, 220 V, three phase 7.16 N.m for LXM28 at 7 A, 220 V, single phase 7.16 N.m for LXM28 at 7 A, 220 V, three phase
Continuous power	1500 W
Peak stall torque	21.48 N.m for LXM26D at 7 A, 220 V, single phase 21.48 N.m for LXM26D at 7 A, 220 V, three phase 21.48 N.m for LXM28... at 7 A, 220 V, single phase 21.48 N.m for LXM28... at 7 A, 220 V, three phase
Nominal output power	1500 W for LXM26D at 7 A, 220 V, single phase 1500 W for LXM26D at 7 A, 220 V, three phase 1500 W for LXM28... at 7 A, 220 V, single phase 1500 W for LXM28... at 7 A, 220 V, three phase
Nominal torque	7.16 N.m for LXM26D at 7 A, 220 V, single phase 7.16 N.m for LXM26D at 7 A, 220 V, three phase 7.16 N.m for LXM28... at 7 A, 220 V, single phase 7.16 N.m for LXM28... at 7 A, 220 V, three phase
Nominal speed	2000 rpm for LXM26D at 7 A, 220 V, single phase 2000 rpm for LXM26D at 7 A, 220 V, three phase 2000 rpm for LXM28... at 7 A, 220 V, single phase 2000 rpm for LXM28... at 7 A, 220 V, three phase
Maximum current Irms	20.31 A for LXM28... at 1.5 kW, 220 V
Maximum permanent current	6.74 A
Product compatibility	LXM26D servo drive motor at 1.5 kW, 220 V, single phase LXM26D servo drive motor at 1.5 kW, 220 V, three phase LXM28... servo drive motor at 1.5 kW, 220 V, single phase LXM28... servo drive motor at 1.5 kW, 220 V, three phase
Shaft end	Keyed
Shaft diameter	22 mm
Shaft length	55 mm
key width	8 mm

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

Feedback type	20 bits single turn absolute encoder
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	130 mm
Electrical connection	Connector MIL
Torque constant	1.16 N.m/A at 20 °C
Back emf constant	70 V/krpm at 20 °C
Number of motor poles	5.0
Rotor inertia	9.7 kg.cm ²
Stator resistance	0.64 Ohm at 20 °C
Stator inductance	6.4 mH at 20 °C
Stator electrical time constant	10 ms at 20 °C
Maximum radial force Fr	670 N at 2000 rpm
Maximum axial force Fa	200 N
Brake pull-in power	19.7 W
type of cooling	Natural convection
Length	167 mm
Number of motor stacks	3
Centring collar diameter	110 mm
centring collar depth	8 mm
Number of mounting holes	4
Mounting holes diameter	9.2 mm
Circle diameter of the mounting holes	145 mm
Distance shaft shoulder-flange	8 mm
Net weight	7.6 kg
Sizing reference	BCH2
Network number of phases	1
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	19.000 cm

Package 1 Width	36.500 cm
Package 1 Length	23.000 cm
Package 1 Weight	9.260 kg
Unit Type of Package 2	S06
Number of Units in Package 2	9
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	94.513 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	7020
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
PVC free	Yes

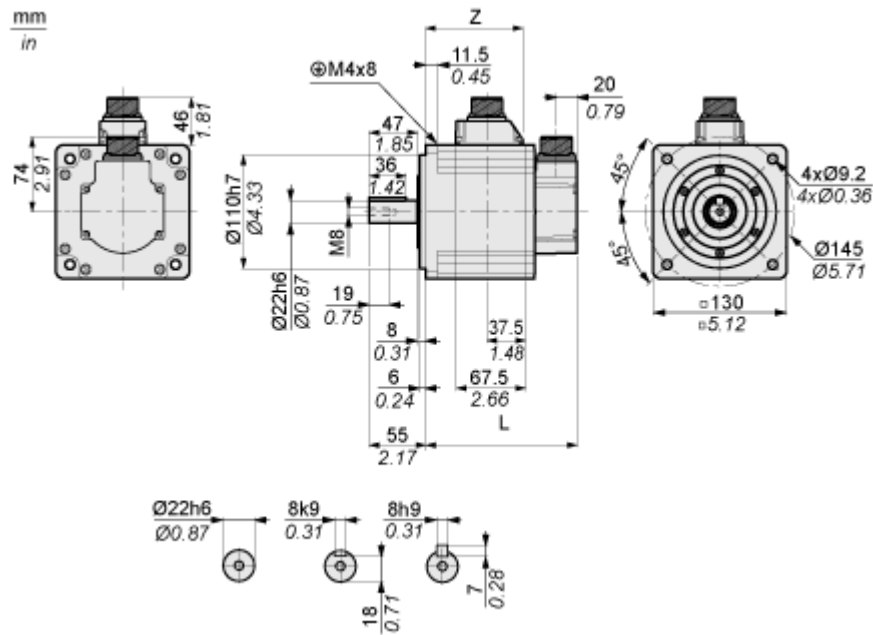
Use Again

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

Dimensions Drawings

Dimensions

Dimensions of Motor

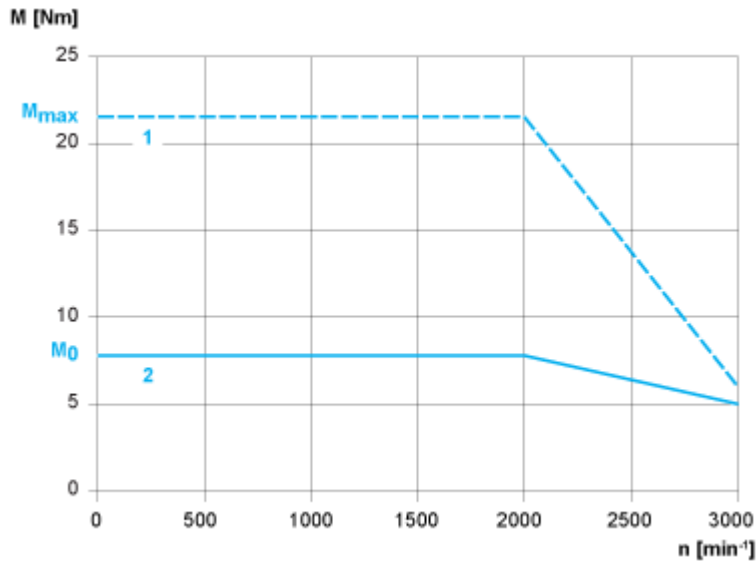


	mm	in.
L (without holding brake)	167	6.57
L (with holding brake)	202	7.95
Z	114.5	4.51

Performance Curves

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

Servo Motor with LXM28AU15 Servo Drive



- 1 : Peak torque
- 2 : Continuous torque