Product datasheet

Specifications

servo motor BCH, Lexium 28, 130mm, 500W, 6.91kg.cm², with oil seal, with key, brake, straight connection

BCH2MM0523CF6C

Discontinued

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 110 V
Network number of phases	Three phase Single phase
Continuous stall current	2.89 A
Continuous stall torque	2.39 N.m for LXM26D at 4.5 A, 220 V, single phase 2.39 N.m for LXM26D at 4.5 A, 220 V, three phase 2.39 N.m for LXM28... at 4.5 A, 220 V, single phase 2.39 N.m for LXM28... at 4.5 A, 220 V, three phase 2.39 N.m for LXM28... at 9 A, 110 V, single phase
Continuous power	500 W
Peak stall torque	7.16 N.m for LXM26D at 4.5 A, 220 V, single phase 7.16 N.m for LXM26D at 4.5 A, 220 V, three phase 7.16 N.m for LXM28... at 4.5 A, 220 V, single phase 7.16 N.m for LXM28... at 4.5 A, 220 V, three phase 7.16 N.m for LXM28... at 9 A, 110 V, single phase
Nominal output power	500 W for LXM26D at 4.5 A, 220 V, single phase 500 W for LXM26D at 4.5 A, 220 V, three phase 500 W for LXM28... at 4.5 A, 220 V, single phase 500 W for LXM28... at 4.5 A, 220 V, three phase 500 W for LXM28... at 9 A, 110 V, single phase
Nominal torque	2.39 N.m for LXM26D at 4.5 A, 220 V, single phase 2.39 N.m for LXM26D at 4.5 A, 220 V, three phase 2.39 N.m for LXM28... at 4.5 A, 220 V, single phase 2.39 N.m for LXM28... at 4.5 A, 220 V, three phase 2.39 N.m for LXM28... at 9 A, 110 V, single phase
Nominal speed	2000 rpm for LXM26D at 4.5 A, 220 V, single phase 2000 rpm for LXM26D at 4.5 A, 220 V, three phase 2000 rpm for LXM28... at 4.5 A, 220 V, single phase 2000 rpm for LXM28... at 4.5 A, 220 V, three phase 2000 rpm for LXM28... at 9 A, 110 V, single phase
Maximum current Irms	9.18 A for LXM28... at 0.5 kW, 220 V 9.18 A for LXM28... at 0.5 kW, 110 V
Maximum permanent current	3.24 A

Product compatibility	LXM26D servo drive motor at 0.5 kW, 220 V, single phase LXM26D servo drive motor at 0.5 kW, 220 V, three phase LXM28... servo drive motor at 0.5 kW, 220 V, single phase LXM28... servo drive motor at 0.5 kW, 220 V, three phase LXM28... servo drive motor at 0.5 kW, 110 V, single phase
Shaft end	Keyed
Shaft diameter	22 mm
Shaft length	45 mm
Key width	8 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	With
Holding torque	9.6 N.m built-in
mounting support	Asian standard flange
Motor flange size	130 mm
Electrical connection	Connector MIL
Torque constant	0.83 N.m/A at 20 °C
Back emf constant	50 V/krpm at 20 °C
Rotor inertia	6.91 kg.cm²
Stator resistance	0.62 Ohm at 20 °C
Stator inductance	7.4 mH at 20 °C
Stator electrical time constant	11.94 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	183 mm
Number of motor stacks	1
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	8.2 kg

Environment

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient air temperature for operation	0…40 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Package 1 Height	18.1 cm
Package 1 Width	23 cm
Package 1 Length	36 cm
Package 1 Weight	9200 g

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency

RoHS/REACh

Well-being performance

Reach Free Of Svhc	
Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

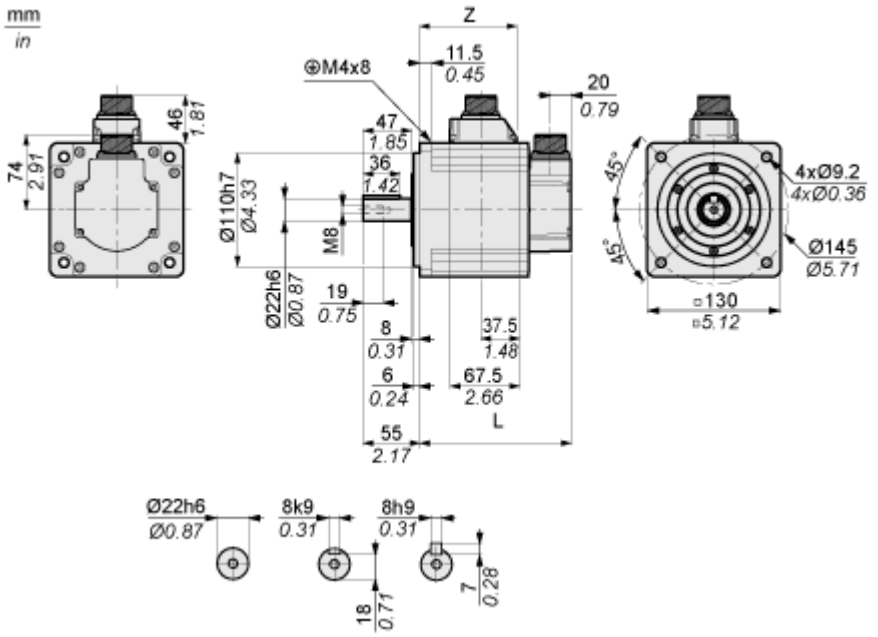
Certifications & Standards

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

Dimensions Drawings

Dimensions

Dimensions of Motor

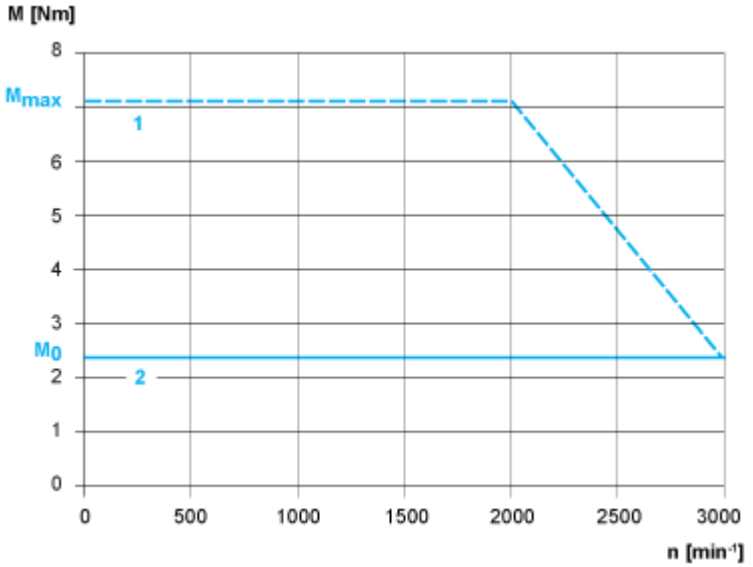


	mm	in.
L (without holding brake)	147	5.79
L (with holding brake)	183	7.2
Z	94.5	3.72

Performance Curves

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

Servo Motor with LXM28AU04●●● Servo Drive



1 : Peak torque

2 : Continuous torque