# **Product datasheet**





servo motor BCH, Lexium 28, 130mm, 300W, 6.91kg.cm<sup>2</sup>, with oil seal, with key, brake, straight connection

BCH2MM0313CF6C



! Discontinued on: Aug 27, 2020

(!) Discontinued

### 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	1.88 A
Continuous stall torque	2.86 N.m for LXM26D at 2.6 A, 220 V, single phase
	2.86 N.m for LXM26D at 2.6 A, 220 V, three phase
	2.86 N.m for LXM28 at 2.6 A, 220 V, single phase
	2.86 N.m for LXM28 at 2.6 A, 220 V, three phase
	2.86 N.m for LXM28 at 5.7 A, 110 V, single phase
Continuous power	300 W
Peak stall torque	8.59 N.m for LXM26D at 2.6 A, 220 V, single phase
	8.59 N.m for LXM26D at 2.6 A, 220 V, three phase
	8.59 N.m for LXM28 at 2.6 A, 220 V, single phase
	8.59 N.m for LXM28 at 2.6 A, 220 V, three phase
	8.59 N.m for LXM28 at 5.7 A, 110 V, single phase
Nominal output power	300 W for LXM26D at 2.6 A, 220 V, single phase
	300 W for LXM26D at 2.6 A, 220 V, three phase
	300 W for LXM28 at 2.6 A, 220 V, single phase
	300 W for LXM28 at 2.6 A, 220 V, three phase
	300 W for LXM28 at 5.7 A, 110 V, single phase
Nominal torque	2.86 N.m for LXM26D at 2.6 A, 220 V, single phase
	2.86 N.m for LXM26D at 2.6 A, 220 V, three phase
	2.86 N.m for LXM28 at 2.6 A, 220 V, single phase
	2.86 N.m for LXM28 at 2.6 A, 220 V, three phase
	2.86 N.m for LXM28 at 5.7 A, 110 V, single phase
Nominal speed	1000 rpm for LXM26D at 2.6 A, 220 V, single phase
	1000 rpm for LXM26D at 2.6 A, 220 V, three phase
	1000 rpm for LXM28 at 2.6 A, 220 V, single phase
	1000 rpm for LXM28 at 2.6 A, 220 V, three phase
	1000 rpm for LXM28 at 5.7 A, 110 V, single phase
Maximum current Irms	5.98 A for LXM28 at 0.3 kW, 220 V
	5.98 A for LXM28 at 0.3 kW, 110 V
Maximum permanent current	2.09 A

Life Is On Schneider Aug 21, 2024

Product compatibility	LXM26D servo drive motor at 0.3 kW, 220 V, single phase LXM26D servo drive motor at 0.3 kW, 220 V, three phase LXM28 servo drive motor at 0.3 kW, 220 V, single phase LXM28 servo drive motor at 0.3 kW, 220 V, three phase LXM28 servo drive motor at 0.3 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	1.52 N.m/A at 20 °C	
Back emf constant	92 V/krpm at 20 °C	
Rotor inertia	6.91 kg.cm²	
Stator resistance	1.93 Ohm at 20 °C	
Stator inductance	24.9 mH at 20 °C	
Stator electrical time constant	12.9 ms at 20 °C	
Maximum radial force Fr	670 N at 1000 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	040 °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	24.000 cm
Package 1 Length	36.200 cm
Package 1 Weight	8.945 ka



**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> 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

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

#### **Certifications & Standards**

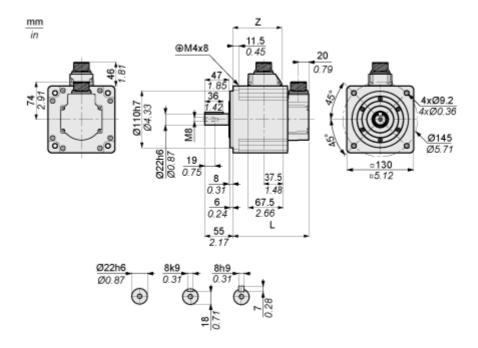
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
<b>Environmental Disclosure</b>	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific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

## BCH2MM0313CF6C

#### **Dimensions Drawings**

#### **Dimensions**

#### **Dimensions of Motor**



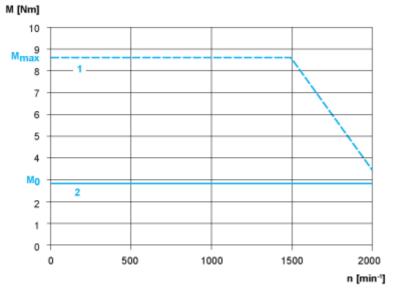
	mm	in.
L (without holding brake)	147	5.79
L (with holding brake)	183	7.2
Z	94.5	3.72

## BCH2MM0313CF6C

#### 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