# **Product data sheet**





Lexium 28

servo motor BCH, Lexium 28, 40mm, 100W, 0.075kg.cm<sup>2</sup>, with oil seal, with key, leads connection

BCH2MB0133CA5C

Product availability: Non-Stock - Not normally stocked in distribution facility

Price\*: 583.87 USD

## Main

Range Compatibility

Device short name	BCH2
Product or Component Type	Servo motor
Complementary	
Maximum mechanical speed	5000 rpm
[Us] rated supply voltage	220 V
	110 V
Phase	Single phase
	Three phase
Continuous stall current	0.81 A
Continuous stall torque	2.83 lbf.in (0.32 N.m) LXM26D 0.9 A, 220 V, single phase
	2.83 lbf.in (0.32 N.m) LXM26D 0.9 A, 220 V, three phase
	2.83 lbf.in (0.32 N.m) LXM28 0.9 A, 220 V, single phase
	2.83 lbf.in (0.32 N.m) LXM28 0.9 A, 220 V, three phase
	2.83 lbf.in (0.32 N.m) LXM28 1.8 A, 110 V, single phase
Continuous power	100 W
Peak stall torque	8.50 lbf.in (0.96 N.m) LXM26D 0.9 A, 220 V, single phase
	8.50 lbf.in (0.96 N.m) LXM26D 0.9 A, 220 V, three phase
	8.50 lbf.in (0.96 N.m) LXM28 0.9 A, 220 V, single phase
	8.50 lbf.in (0.96 N.m) LXM28 0.9 A, 220 V, three phase
	8.50 lbf.in (0.96 N.m) LXM28 1.8 A, 110 V, single phase
Nominal output power	100 W LXM26D 0.9 A, 220 V, single phase
	100 W LXM26D 0.9 A, 220 V, three phase
	100 W LXM28 0.9 A, 220 V, single phase
	100 W LXM28 0.9 A, 220 V, three phase
	100 W LXM28 1.8 A, 110 V, single phase
Nominal torque	2.83 lbf.in (0.32 N.m) LXM26D 0.9 A, 220 V, single phase
•	2.83 lbf.in (0.32 N.m) LXM26D 0.9 A, 220 V, three phase
	2.83 lbf.in (0.32 N.m) LXM28 0.9 A, 220 V, single phase
	2.83 lbf.in (0.32 N.m) LXM28 0.9 A, 220 V, three phase
	2.83 lbf.in (0.32 N.m) LXM28 1.8 A, 110 V, single phase
Nominal speed	3000 rpm LXM26D 0.9 A, 220 V, single phase
	3000 rpm LXM26D 0.9 A, 220 V, three phase
	3000 rpm LXM28 0.9 A, 220 V, single phase
	3000 rpm LXM28 0.9 A, 220 V, three phase
	3000 rpm LXM28 1.8 A, 110 V, single phase
Maximum current Irms	2.65 A LXM28 0.1 kW, 220 V
	2.65 A LXM28 0.1 kW, 110 V
Maximum permanent current	0.89 A
•	

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Product compatibility	LXM26D servo drive 0.1 kW, 220 V, single phase LXM26D servo drive 0.1 kW, 220 V, three phase LXM28 servo drive 0.1 kW, 220 V, single phase LXM28 servo drive 0.1 kW, 220 V, three phase LXM28 servo drive 0.1 kW, 110 V, single phase	
Shaft end	Keyed	
Shaft diameter	0.3 in (8 mm)	
Shaft length	1.0 in (25 mm)	
Key width	0.1 in (3 mm)	
Feedback type	20 bits single turn absolute encoder	
Holding brake	Without	
Mounting Support	Asian standard flange	
Motor flange size	1.6 in (40 mm)	
Electrical connection	Free lead	
Torque constant	0.4 N.m/A 68.0000000000 °F (20 °C)	
Back emf constant	24 V/krpm 68.0000000000 °F (20 °C)	
Rotor inertia	0.075 kg.cm²	
Stator resistance	23.4 Ohm 68.0000000000 °F (20 °C)	
Stator inductance	20.6 mH 68.0000000000 °F (20 °C)	
Stator electrical time constant	0.88 ms 68.0000000000 °F (20 °C)	
Maximum radial force Fr	85 N 3000 rpm	
Maximum axial force Fa	40 N	
Brake pull-in power	4.35 W	
Type of cooling	Natural convection	
Length	3.9 in (100 mm)	
Number of motor stacks	2	
Centring collar diameter	1.2 in (30 mm)	
Centring collar depth	0.1 in (3 mm)	
Number of mounting holes	4	
Mounting holes diameter	0.2 in (4.5 mm)	
Circle diameter of the mounting holes	1.8 in (46 mm)	
Distance shaft shoulder-flange	0.1 in (3 mm)	
Net Weight	1.23 lb(US) (0.56 kg)	

# **Environment**

IP Degree of Protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient Air Temperature for Operation	-4.0000000000104.0000000000 °F (-2040 °C)

# Ordering and shipping details

Category	US1PC5318281	
Discount Schedule	PC53	
GTIN	3606480733468	

Returnability	No	
Country of origin	CN	

# **Packing Units**

r adming dimes	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.266 in (8.295 cm)
Package 1 Width	5.17 in (13.14 cm)
Package 1 Length	9.576 in (24.324 cm)
Package 1 Weight	3.05 oz (86.5 g)
Unit Type of Package 2	S01
Number of Units in Package 2	60
Package 2 Height	5.9 in (15 cm)
Package 2 Width	5.9 in (15 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	112.57 lb(US) (51.06 kg)
Unit Type of Package 3	S06
Number of Units in Package 3	60
Package 3 Height	28.9 in (73.5 cm)
Package 3 Width	23.6 in (60 cm)
Package 3 Length	31.5 in (80 cm)
Package 3 Weight	183.4 oz (5200 g)

# Sustainability Screen Premium\*

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

## **Certifications & Standards**

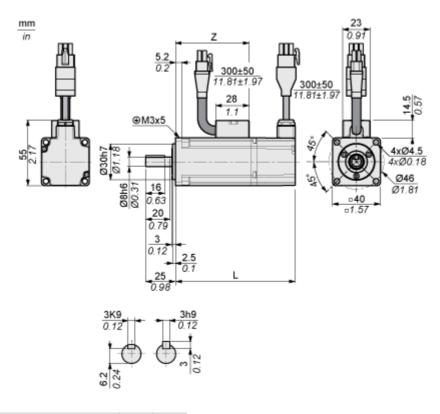
Reach Regulation	Pro-active compliance (Product out of EU RoHS legal scope)	
Eu Rohs Directive		
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never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

Oct 2, 2024

# **Dimensions Drawings**

## **Dimensions**

#### **Dimensions of Motor**

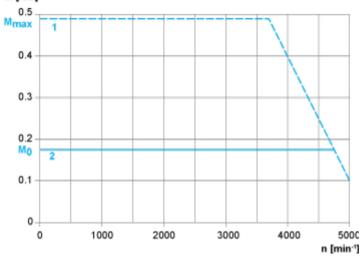


	mm	in.
L (without holding brake)	100	3.94
L (with holding brake)	130	5.12
Z	61.5	2.42

#### Performance Curves

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

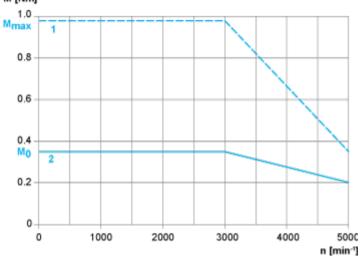
Servo Motor without shaft sealing ring and LXM28AU01●●● Servo Drive M [Nm]



- 1: Peak torque
- 2: Continuous torque

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

Servo Motor with shaft sealing ring and LXM28AU01●●● Servo Drive M [Nm]



- 1: Peak torque
- 2: Continuous torque