Product data sheet

Specification





Lexium 28

servo motor BCH, Lexium 28, 40mm, 50W, 0.055kg.cm², with oil seal, with key, brake, leads connection

BCH2MBA533CF5C

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

Price*: 1,227.75 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	0.54 A	
Continuous stall torque	1.42 lbf.in (0.16 N.m) LXM26D 0.64 A, 220 V, single phase 1.42 lbf.in (0.16 N.m) LXM26D 0.64 A, 220 V, three phase 1.42 lbf.in (0.16 N.m) LXM28 0.64 A, 220 V, single phase 1.42 lbf.in (0.16 N.m) LXM28 0.64 A, 220 V, three phase 1.42 lbf.in (0.16 N.m) LXM28 1.2 A, 110 V, single phase	
Continuous power	50 W	
Peak stall torque	4.25 lbf.in (0.48 N.m) LXM26D 0.64 A, 220 V, single phase 4.25 lbf.in (0.48 N.m) LXM26D 0.64 A, 220 V, three phase 4.25 lbf.in (0.48 N.m) LXM28 0.64 A, 220 V, single phase 4.25 lbf.in (0.48 N.m) LXM28 0.64 A, 220 V, three phase 4.25 lbf.in (0.48 N.m) LXM28 1.2 A, 110 V, single phase	
Nominal output power	50 W LXM26D 0.64 A, 220 V, single phase 50 W LXM26D 0.64 A, 220 V, three phase 50 W LXM28 0.64 A, 220 V, single phase 50 W LXM28 0.64 A, 220 V, three phase 50 W LXM28 1.2 A, 110 V, single phase	
Nominal torque	1.42 lbf.in (0.16 N.m) LXM26D 0.64 A, 220 V, single phase 1.42 lbf.in (0.16 N.m) LXM26D 0.64 A, 220 V, three phase 1.42 lbf.in (0.16 N.m) LXM28 0.64 A, 220 V, single phase 1.42 lbf.in (0.16 N.m) LXM28 0.64 A, 220 V, three phase 1.42 lbf.in (0.16 N.m) LXM28 1.2 A, 110 V, single phase	
Nominal speed	3000 rpm LXM26D 0.64 A, 220 V, single phase 3000 rpm LXM26D 0.64 A, 220 V, three phase 3000 rpm LXM28 0.64 A, 220 V, single phase 3000 rpm LXM28 0.64 A, 220 V, three phase 3000 rpm LXM28 1.2 A, 110 V, single phase	
Maximum current Irms	1.77 A LXM28 0.05 kW, 220 V 1.77 A LXM28 0.05 kW, 110 V	
Maximum permanent current	0.59 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 0.05 kW, 220 V, single phase LXM26D servo drive 0.05 kW, 220 V, three phase LXM28 servo drive 0.05 kW, 220 V, single phase LXM28 servo drive 0.05 kW, 220 V, three phase LXM28 servo drive 0.05 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	With	
Holding torque	2.83 lbf.in (0.32 N.m) built-in	
Mounting Support	Asian standard flange	
Motor flange size	1.6 in (40 mm)	
Electrical connection	Free lead	
Torque constant	0.3 N.m/A 68 °F (20 °C)	
Back emf constant	18 V/krpm 68 °F (20 °C)	
Rotor inertia	0.055 kg.cm ²	
Stator resistance	31 Ohm 68 °F (20 °C)	
Stator inductance	24.7 mH 68 °F (20 °C)	
Stator electrical time constant	0.8 ms 68 °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	4.4 in (112 mm)	
Number of motor stacks	1	
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	1.3 lb(US) (0.6 kg)	

Environment

IP Degree of Protection	IP50 IM V3 IP65 IM B5, IM V1	
Ambient Air Temperature for Operation	32104 °F (040 °C)	

Ordering and shipping details

Category	US1PC5318281
Discount Schedule	PC53

GTIN	3606480733390
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.1 in (8 cm)
Package 1 Width	5.1 in (13 cm)
Package 1 Length	9.4 in (24 cm)
Package 1 Weight	28.0 oz (793 g)
Unit Type of Package 2	S02
Number of Units in Package 2	3
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	6.956 lb(US) (3.155 kg)

Sustainability Green Premium

Green PremiumTM **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-CO₂ 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

②	Reach Free Of Svhc	
②	Mercury Free	
②	Rohs Exemption Information	Yes
⊘	Pvc Free	

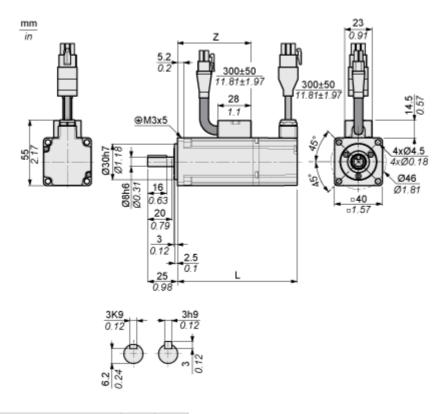
Certifications & Standards

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

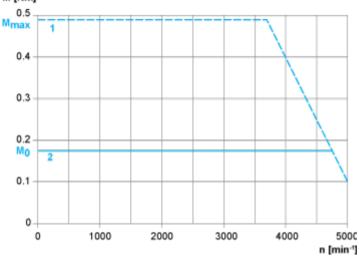


	mm	in.
L (without holding brake)	82	3.23
L (with holding brake)	112	4.41
Z	43.5	1.71

Performance Curves

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

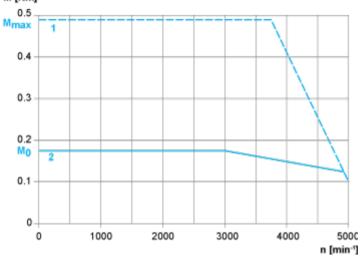
Servo Motor Without Shaft Sealing Ring and LXM28AUA5●●● Servo Drive M [Nm]



- 1: Peak torque
- 2: Continuous torque

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

Servo Motor with shaft sealing ring and LXM28AUA5●●● Servo Drive M [Nm]



- 1: Peak torque
- 2: Continuous torque