Product data sheet

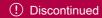




servo motor BCH, Lexium 28, 40mm, 50W, 0.054kg.cm², without oil seal, with key, leads connection

BCH2MBA531CA5C

! Discontinued on: Oct 9, 2023



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

Main

Range Compatibility	Lexium 28
Device short name	BCH2
Product or Component Type	Servo motor

Complementary

o o impromornan y		
Maximum mechanical speed	5000 rpm	
[Us] rated supply voltage	220 V 110 V	
Phase	Three phase Single phase	
Continuous stall current	0.54 A	
Continuous stall torque	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) 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 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) 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 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	
Product compatibility	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)	

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

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	0.3 N.m/A 68 °F (20 °C)
Back emf constant	18 V/krpm 68 °F (20 °C)
Rotor inertia	0.054 kg.cm²
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	3.2 in (82 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	0.9 lb(US) (0.4 kg)

Environment

IP Degree of Protection	IP54 IM B5, IM V1 IP50 IM V3	
Ambient Air Temperature for Operation	-4104 °F (-2040 °C)	

Ordering and shipping details

Category	US1PC5318281	
Discount Schedule	PC53	
GTIN	3606480733345	
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 (8.0 cm)	
Package 1 Width	5.1 in (13.0 cm)	

Package 1 Length	9.4 in (24.0 cm)
Package 1 Weight	22.7 oz (643.0 g)

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	

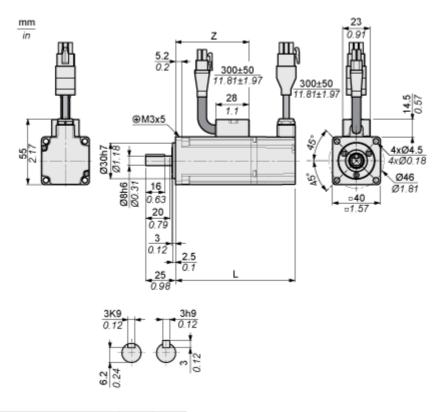
Certifications & Standards

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.		
	collection and never end up in rubbish bins.		
Circularity Profile	End of Life Information		

Dimensions Drawings

Dimensions

Dimensions of Motor

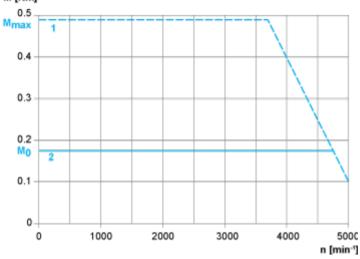


	mm	in.
L (without holding brake)	82	3.23
L (with holding brake)	112	4.41
Z	43.5	1.71

Performance Curves

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

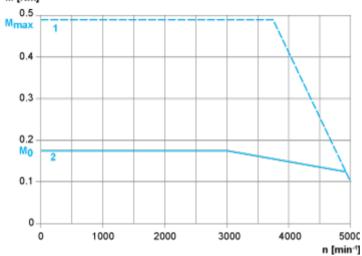
Servo Motor Without Shaft Sealing Ring and LXM28AUA5●●● Servo Drive M [Nm]



- 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