Product data sheet

Specification





servo motor BCH, Lexium 28, 180mm, 3500W, 54.1kg.cm², with oil seal, with key, brake, straight connection

BCH2MR3523CF6C

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

Price*: 3,017.55 USD

Main

Range Compatibility	Lexium 28
Product Or Component Type	Servo motor
Device Short Name	BCH2

Complementary

Maximum Mechanical Speed	3000 rpm
[Us] Rated Supply Voltage	220 V
Phase	Three phase
Continuous Stall Current	16.55 A
Continuous Stall Torque	147.81 lbf.in (16.7 N.m) LXM26D 22.9 A, 220 V, three phase 147.81 lbf.in (16.7 N.m) LXM28 22.9 A, 220 V, three phase
Continuous Power	3500 W
Peak Stall Torque	445.19 lbf.in (50.3 N.m) LXM26D 22.9 A, 220 V, three phase 445.19 lbf.in (50.3 N.m) LXM28 22.9 A, 220 V, three phase
Nominal Output Power	3500 W LXM26D 22.9 A, 220 V, three phase 3500 W LXM28 22.9 A, 220 V, three phase
Nominal Torque	147.81 lbf.in (16.7 N.m) LXM26D 22.9 A, 220 V, three phase 147.81 lbf.in (16.7 N.m) LXM28 22.9 A, 220 V, three phase
Nominal Speed	2000 rpm LXM26D 22.9 A, 220 V, three phase 2000 rpm LXM28 22.9 A, 220 V, three phase
Maximum Current Irms	57.8 A LXM26D 3.5 kW, 220 V 57.8 A LXM28 3.5 kW, 220 V
Maximum Permanent Current	19 A
Product Compatibility	LXM26D servo drive 3.5 kW, 220 V, three phase LXM28 servo drive 3.5 kW, 220 V, three phase
Shaft End	Keyed
Shaft Diameter	1.38 in (35 mm)
Shaft Length	3.11 in (79 mm)
Key Width	0.39 in (10 mm)
Feedback Type	20 bits single turn absolute encoder
Holding Brake	With
Holding Torque	424.84 lbf.in (48 N.m) built-in

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

Mounting Support	Asian standard flange
Motor Flange Size	7.09 in (180 mm)
Electrical Connection	Connector MIL
Torque Constant	1.01 N.m/A 68 °F (20 °C)
Back Emf Constant	61 V/krpm 68 °F (20 °C)
Rotor Inertia	54.1 kg.cm²
Stator Resistance	0.157 Ohm 68 °F (20 °C)
Stator Inductance	2.93 mH 68 °F (20 °C)
Stator Electrical Time Constant	18.66 ms 68 °F (20 °C)
Maximum Radial Force Fr	1200 N 2000 rpm
Maximum Axial Force Fa	497 N
Brake Pull-In Power	49.6 W
Brake Pull-In Power Type Of Cooling	49.6 W Natural convection
Type Of Cooling	Natural convection
Type Of Cooling Length	Natural convection 9.25 in (235 mm)
Type Of Cooling Length Number Of Motor Stacks	Natural convection 9.25 in (235 mm) 2
Type Of Cooling Length Number Of Motor Stacks Centring Collar Diameter	Natural convection 9.25 in (235 mm) 2 4.50 in (114.3 mm)
Type Of Cooling Length Number Of Motor Stacks Centring Collar Diameter Centring Collar Depth	Natural convection 9.25 in (235 mm) 2 4.50 in (114.3 mm) 0.16 in (4 mm)
Type Of Cooling Length Number Of Motor Stacks Centring Collar Diameter Centring Collar Depth Number Of Mounting Holes	Natural convection 9.25 in (235 mm) 2 4.50 in (114.3 mm) 0.16 in (4 mm)
Type Of Cooling Length Number Of Motor Stacks Centring Collar Diameter Centring Collar Depth Number Of Mounting Holes Mounting Holes Diameter Circle Diameter Of The Mounting	Natural convection 9.25 in (235 mm) 2 4.50 in (114.3 mm) 0.16 in (4 mm) 4 0.53 in (13.5 mm)

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	3606480734915
Returnability	No
Country Of Origin	CN

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	9.65 in (24.5 cm)
Package 1 Width	11.42 in (29 cm)
Package 1 Length	23.03 in (58.5 cm)
Package 1 Weight	868.78 oz (24630 g)

Unit Type Of Package 2	P06
Number Of Units In Package 2	4
Package 2 Height	19.69 in (50 cm)
Package 2 Width	31.50 in (80 cm)
Package 2 Length	23.62 in (60 cm)
Package 2 Weight	244.05 lb(US) (110.7 kg)



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

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

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

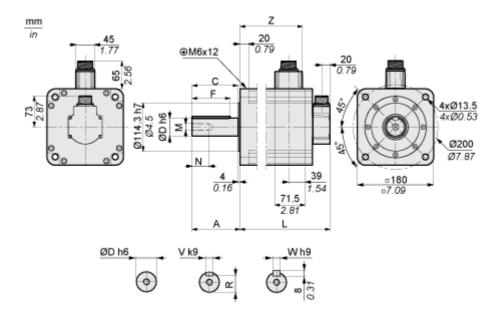
Certifications & Standards

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	

Dimensions Drawings

Dimensions

Dimensions of Motor

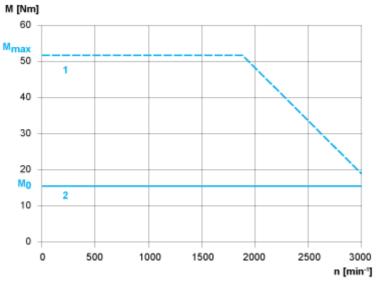


	mm	in.
L (without holding brake)	202	7.95
L (with holding brake)	235	9.25
A	79	3.11
С	73	2.87
D	35	1.38
F	63	2.48
N	28	1.10
М	M12	
R	30	1.18
V	10	0.39
W	10	0.39
Z	136	5.35

Performance Curves

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

Servo Motor with LXM28AU45●●● Servo Drive



- 1: Peak torque
- 2: Continuous torque