Product data sheet

Specifications





servo motor BCH, Lexium 28, 180mm, 4500W, 74kg.cm², with oil seal, with key, brake, straight connection

BCH2MR4513CF6C

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

Price*: 4,076.10 USD

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	
Phase	Three phase	
Continuous stall current	19.68 A	
Continuous stall torque	253.57 lbf.in (28.65 N.m) LXM26D 22.9 A, 220 V, three phase 253.57 lbf.in (28.65 N.m) LXM28 22.9 A, 220 V, three phase	
Continuous power	4500 W	
Peak stall torque	633.89 lbf.in (71.62 N.m) LXM26D 22.9 A, 220 V, three phase 633.89 lbf.in (71.62 N.m) LXM28 22.9 A, 220 V, three phase	
Nominal output power	4500 W LXM26D 22.9 A, 220 V, three phase 4500 W LXM28 22.9 A, 220 V, three phase	
Nominal torque	253.57 lbf.in (28.65 N.m) LXM26D 22.9 A, 220 V, three phase 253.57 lbf.in (28.65 N.m) LXM28 22.9 A, 220 V, three phase	
Nominal speed	1500 rpm LXM26D 22.9 A, 220 V, three phase 1500 rpm LXM28 22.9 A, 220 V, three phase	
Maximum current Irms	57.6 A LXM26D 4.5 kW, 220 V 57.6 A LXM28 4.5 kW, 220 V	
Maximum permanent current	22.8 A	
Product compatibility	LXM26D servo drive 4.5 kW, 220 V, three phase LXM28 servo drive 4.5 kW, 220 V, three phase	
Shaft end	Keyed	
Shaft diameter	1.4 in (35 mm)	
Shaft length	3.1 in (79 mm)	
Key width	0.4 in (10 mm)	
Feedback type	20 bits single turn absolute encoder	
Holding brake	With	
Holding torque	424.8 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	1.46 N.m/A 68 °F (20 °C)	
Back emf constant	88 V/krpm 68 °F (20 °C)	
Rotor inertia	74 kg.cm²	
Stator resistance	0.199 Ohm 68 °F (20 °C)	
Stator inductance	3.8 mH 68 °F (20 °C)	
Stator electrical time constant	19.1 ms 68 °F (20 °C)	
Maximum radial force Fr	1200 N 1500 rpm	
Maximum axial force Fa	497 N	
Brake pull-in power	49.6 W	
Type of cooling	Natural convection	
Length	11.0 in (279 mm)	
Number of motor stacks	3	
Centring collar diameter	4.5 in (114.3 mm)	
Centring collar depth	0.2 in (4 mm)	
Number of mounting holes	4	
Mounting holes diameter	0.5 in (13.5 mm)	
Circle diameter of the mounting holes	7.9 in (200 mm)	
Distance shaft shoulder-flange	0.2 in (4 mm)	
Net Weight	61.7 lb(US) (28 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	3606480735073	
Returnability	No	
Country of origin	CN	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.6 in (24.5 cm)
Package 1 Width	11.4 in (29 cm)
Package 1 Length	23.03 in (58.5 cm)
Package 1 Weight	1045.1 oz (29630 g)

Unit Type of Package 2	P06	
Number of Units in Package 2	4	
Package 2 Height	19.7 in (50 cm)	
Package 2 Width	31.5 in (80 cm)	
Package 2 Length	23.6 in (60 cm)	
Package 2 Weight	259.7 lb(US) (117.8 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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Transparency RoHS/REACh

Well-being performance

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

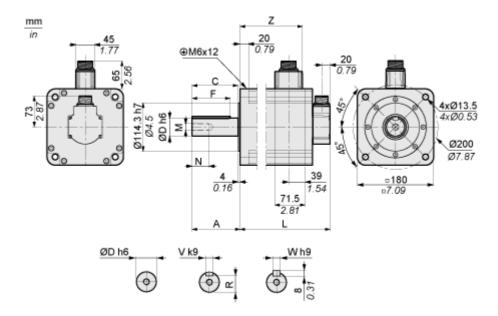
Certifications & Standards

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		
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

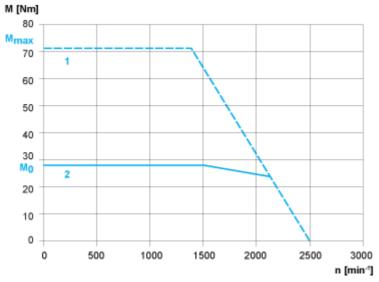


	mm	in.
L (without holding brake)	235	9.25
L (with holding brake)	279	10.98
A	79	3.11
С	73	2.87
D	35	1.38
F	63	2.48
N	28	1.10
М	M12	
R	30	1.18
V	10	0.39
W	10	0.39
Z	169	6.65

Performance Curves

Torque/Speed Curves with 230 V Three Phase Supply Voltage

Servo Motor with LXM28AU45●●● Servo Drive



- 1: Peak torque
- 2: Continuous torque