Product data sheet





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

BCH2MR4512CF6C

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

Price*: 6,114.15 USD

Main

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

Complementary

Maximum machanical apard	2000
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) LXM28 22.9 A, 220 V, three phase
Continuous power	4500 W
Peak stall torque	633.89 lbf.in (71.62 N.m) LXM28 22.9 A, 220 V, three phase
Nominal output power	4500 W LXM28 22.9 A, 220 V, three phase
Nominal torque	253.57 lbf.in (28.65 N.m) LXM28 22.9 A, 220 V, three phase
Nominal speed	1500 rpm LXM28 22.9 A, 220 V, three phase
Maximum current Irms	57.6 A LXM28 4.5 kW, 220 V
Maximum permanent current	22.8 A
Product compatibility	LXM28 servo drive 4.5 kW, 220 V, three phase
Shaft end	Smooth shaft
Shaft diameter	1.4 in (35 mm)
Shaft diameter Shaft length	1.4 in (35 mm) 3.1 in (79 mm)
Shaft length	3.1 in (79 mm)
Shaft length Feedback type	3.1 in (79 mm) 20 bits single turn absolute encoder
Shaft length Feedback type Holding brake	3.1 in (79 mm) 20 bits single turn absolute encoder With
Shaft length Feedback type Holding brake Holding torque	3.1 in (79 mm) 20 bits single turn absolute encoder With 424.8 lbf.in (48 N.m) built-in
Shaft length Feedback type Holding brake Holding torque Mounting Support	3.1 in (79 mm) 20 bits single turn absolute encoder With 424.8 lbf.in (48 N.m) built-in Asian standard flange
Shaft length Feedback type Holding brake Holding torque Mounting Support Motor flange size	3.1 in (79 mm) 20 bits single turn absolute encoder With 424.8 lbf.in (48 N.m) built-in Asian standard flange 7.09 in (180 mm)

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

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	3606480735059
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 (29.0 cm)
Package 1 Length	23.03 in (58.5 cm)
Package 1 Weight	65.32 lb(US) (29.63 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

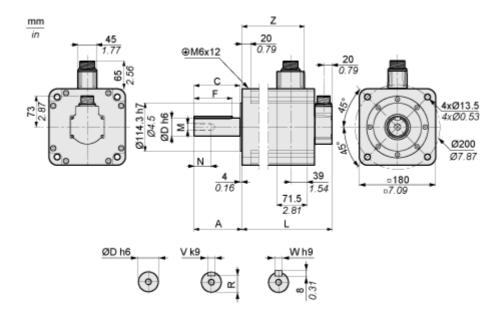
Certifications & Standards

Reach Regulation	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		

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

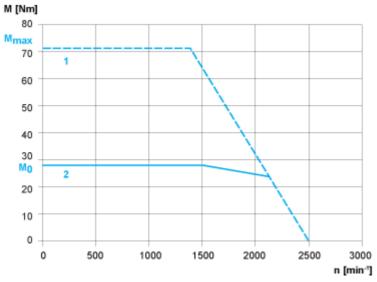
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Performance Curves

Torque/Speed Curves with 230 V Three Phase Supply Voltage

Servo Motor with LXM28AU45●●● Servo Drive



1: Peak torque

2: Continuous torque