Product data sheet

Specifications





servo motor BCH, Lexium 28, 180mm, 4500W, without oil seal, with key, brake, straight connection

BCH2MR4511CF6C



! Discontinued on: Jun 30, 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

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	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	
Mounting Support	Asian standard flange	
Motor flange size	7.09 in (180 mm)	
Electrical connection	Connector MIL	

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

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	IP54 IM B5, IM V1 IP50 IM V3	
Ambient Air Temperature for Operation	32104 °F (040 °C)	

Ordering and shipping details

Category	US1PC5318281	
Discount Schedule	PC53	
GTIN	3606480735035	
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	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

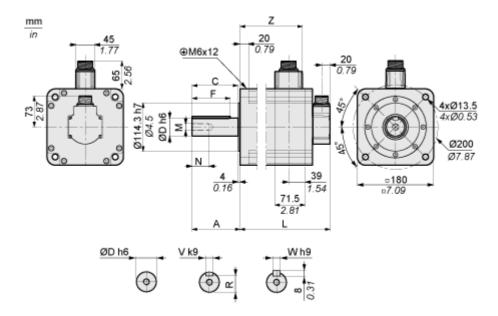
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish 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

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Dimensions Drawings

Dimensions

Dimensions of Motor



	mm	in.
L (without holding brake)	235	9.25
L (with holding brake)	279	10.98
А	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

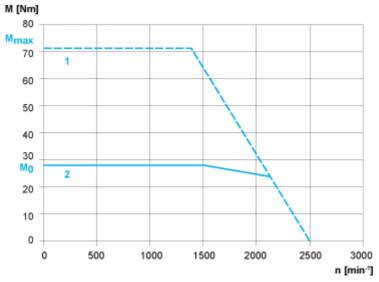
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Performance Curves

Torque/Speed Curves with 230 V Three Phase Supply Voltage

Servo Motor with LXM28AU45●●● Servo Drive



1: Peak torque

2: Continuous torque