Product datasheet

Specifications





servo motor BCH, Lexium 28, 180mm, 4500W, 73.32kg.cm², with oil seal, with key, straight connection

BCH2MR4513CA6C

Main

Range compatibility	Lexium 28
Device short name	BCH2
Product or component type	Servo motor

Complementary

Complementary		
Maximum mechanical speed	3000 rpm	
[Us] rated supply voltage	220 V	
Network number of phases	Three phase	
Continuous stall current	19.68 A	
Continuous stall torque	28.65 N.m for LXM26D at 22.9 A, 220 V, three phase 28.65 N.m for LXM28 at 22.9 A, 220 V, three phase	
Continuous power	4500 W	
Peak stall torque	71.62 N.m for LXM26D at 22.9 A, 220 V, three phase 71.62 N.m for LXM28 at 22.9 A, 220 V, three phase	
Nominal output power	4500 W for LXM26D at 22.9 A, 220 V, three phase 4500 W for LXM28 at 22.9 A, 220 V, three phase	
Nominal torque	28.65 N.m for LXM26D at 22.9 A, 220 V, three phase 28.65 N.m for LXM28 at 22.9 A, 220 V, three phase	
Nominal speed	1500 rpm for LXM26D at 22.9 A, 220 V, three phase 1500 rpm for LXM28 at 22.9 A, 220 V, three phase	
Maximum current Irms	57.6 A for LXM26D at 4.5 kW, 220 V 57.6 A for LXM28 at 4.5 kW, 220 V	
Maximum permanent current	22.8 A	
Product compatibility	LXM26D servo drive motor at 4.5 kW, 220 V, three phase LXM28 servo drive motor at 4.5 kW, 220 V, three phase	
Shaft end	Keyed	
Shaft diameter	35 mm	
Shaft length	79 mm	
Key width	10 mm	
Feedback type	20 bits single turn absolute encoder	
Holding brake	Without	
mounting support	Asian standard flange	
Motor flange size	180 mm	
Electrical connection	Connector MIL	
Torque constant	1.46 N.m/A at 20 °C	

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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

Back emf constant	88 V/krpm at 20 °C
Rotor inertia	73.32 kg.cm²
Stator resistance	0.199 Ohm at 20 °C
Stator inductance	3.8 mH at 20 °C
Stator electrical time constant	19.1 ms at 20 °C
Maximum radial force Fr	1200 N at 1500 rpm
Maximum axial force Fa	497 N
Brake pull-in power	49.6 W
Type of cooling	Natural convection
Length	235 mm
Number of motor stacks	3
Centring collar diameter	114.3 mm
Centring collar depth	4 mm
Number of mounting holes	4
Mounting holes diameter	13.5 mm
Circle diameter of the mounting holes	200 mm
Distance shaft shoulder-flange	4 mm
Net weight	23.64 kg

Environment

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient air temperature for operation	-2040 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	24.5 cm
Package 1 Width	29.0 cm
Package 1 Length	58.5 cm
Package 1 Weight	25.18 kg

Sustainability Screen

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

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

Certifications & Standards

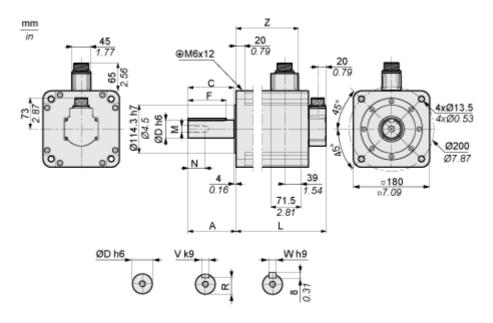
Reach Regulation	REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope)	
Eu Rohs Directive		
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste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

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Dimensions Drawings

Dimensions

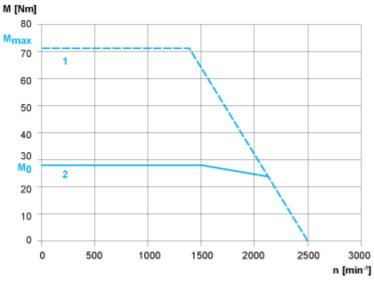
Dimensions of Motor



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