

# Product data sheet

## Characteristics

### BCH2MR4512CF6C

servo motor BCH, Lexium 28, 180mm, 4500W, 74kg.cm<sup>2</sup>, with oil seal, smooth, brake, straight connection



#### 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
Network number of phases	Three phase
Continuous stall current	19.68 A
Continuous stall torque	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 LXM28... at 22.9 A, 220 V, three phase
Nominal output power	4500 W for LXM28... at 22.9 A, 220 V, three phase
Nominal torque	28.65 N.m for LXM28... at 22.9 A, 220 V, three phase
Nominal speed	1500 rpm for LXM28... at 22.9 A, 220 V, three phase
Maximum current I <sub>rms</sub>	57.6 A for LXM28... at 4.5 kW, 220 V
Maximum permanent current	22.8 A
Product compatibility	LXM28... servo drive motor at 4.5 kW, 220 V, three phase
Shaft end	Smooth shaft
Shaft diameter	35 mm
Shaft length	79 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	With
Holding torque	48 N.m built-in
Mounting support	Asian standard flange
Motor flange size	180 mm
Electrical connection	Connector MIL
Torque constant	1.46 N.m/A at 20 °C
Back emf constant	88 V/krpm at 20 °C
Rotor inertia	74 kg.cm <sup>2</sup>
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

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Length	279 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	28 kg

## Environment

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient air temperature for operation	0...40 °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	29.63 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

