

Product datasheet

Characteristics

BCH2MR4511CA6C

servo motor BCH - 180mm - 4500W - no oil seal - w key - straight con



Main

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

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 Irms	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	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
Back emf constant	88 V/krpm at 20 °C
Rotor inertia	73.32 kg.cm²
Stator resistance	0.199 Ohm 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

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
Product weight	23.64 kg

Environment

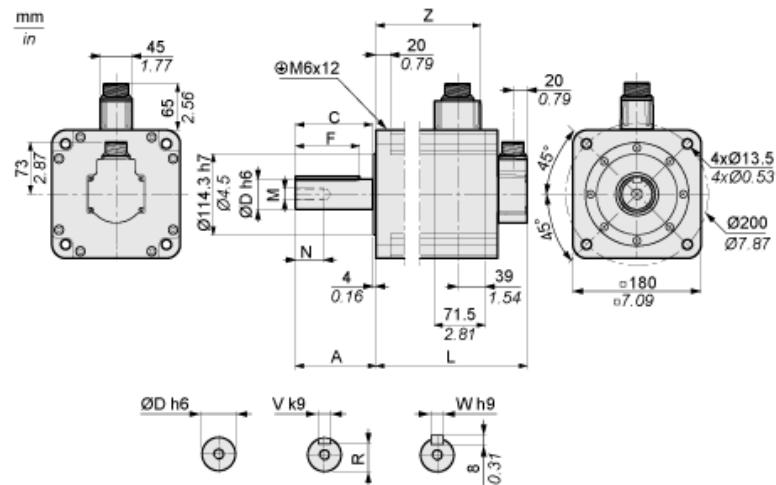
IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient air temperature for operation	-20...40 °C

Contractual warranty

Warranty	18 months
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Dimensions

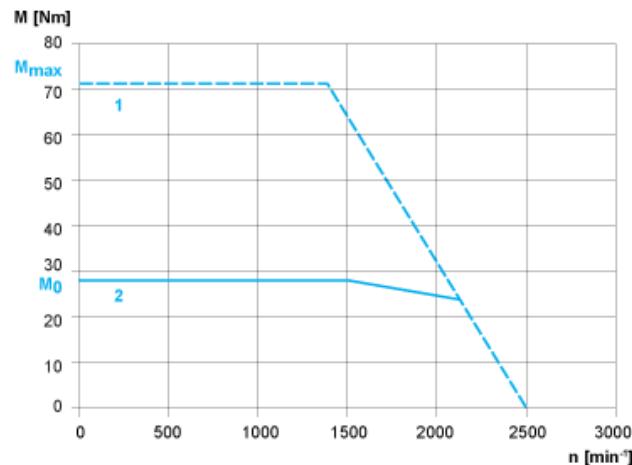
Dimensions of Motor



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

Torque/Speed Curves with 230 V Three Phase Supply Voltage

Servo Motor with LXM28AU45●●● Servo Drive



1 : Peak torque
2 : Continuous torque