

BCH2LH1031CF6C

servo motor BCH - 100mm - 1000W - no oil seal -
w key - brake - straight con



Main

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

Complementary

Maximum mechanical speed	5000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Three phase Single phase
Continuous stall current	5.83 A
Continuous stall torque	3.18 N.m for LXM28... at 7 A, 220 V, single phase 3.18 N.m for LXM28... at 7 A, 220 V, three phase
Continuous power	1000 W
Peak stall torque	9.54 N.m for LXM28... at 7 A, 220 V, single phase 9.54 N.m for LXM28... at 7 A, 220 V, three phase
Nominal output power	1000 W for LXM28... at 7 A, 220 V, single phase 1000 W for LXM28... at 7 A, 220 V, three phase
Nominal torque	3.18 N.m for LXM28... at 7 A, 220 V, single phase 3.18 N.m for LXM28... at 7 A, 220 V, three phase
Nominal speed	3000 rpm for LXM28... at 7 A, 220 V, single phase 3000 rpm for LXM28... at 7 A, 220 V, three phase
Maximum current Irms	18.9 A for LXM28... at 1 kW, 220 V
Maximum permanent current	6.64 A
Product compatibility	LXM28... servo drive motor at 1 kW, 220 V, single phase LXM28... servo drive motor at 1 kW, 220 V, three phase
Shaft end	Keyed
Shaft diameter	22 mm
Shaft length	45 mm
Key width	8 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	With
Holding torque	6.5 N.m built-in
Mounting support	Asian standard flange

Motor flange size	100 mm
Electrical connection	Connector MIL
Torque constant	0.55 N.m/A at 20 °C
Back emf constant	33 V/krpm at 20 °C
Rotor inertia	2.45 kg.cm ²
Stator resistance	0.67 Ohm at 20 °C
Stator inductance	4.2 mH at 20 °C
Stator electrical time constant	6.27 ms at 20 °C
Maximum radial force Fr	570 N at 3000 rpm
Maximum axial force Fa	200 N
Brake pull-in power	10.4 W
Type of cooling	Natural convection
Length	180.5 mm
Number of motor stacks	1
Centring collar diameter	95 mm
Centring collar depth	7 mm
Number of mounting holes	4
Mounting holes diameter	9.2 mm
Circle diameter of the mounting holes	115 mm
Distance shaft shoulder-flange	7 mm
Product weight	5.1 kg

Environment

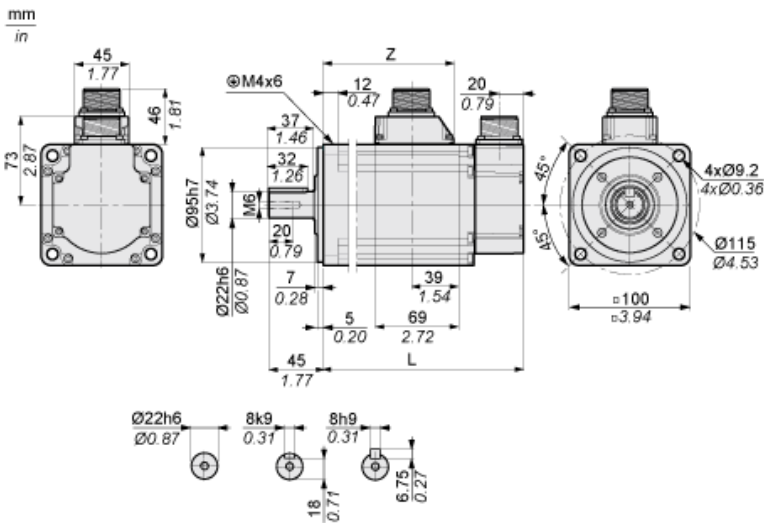
IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient air temperature for operation	0...40 °C

Contractual warranty

Warranty	18 months
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Dimensions

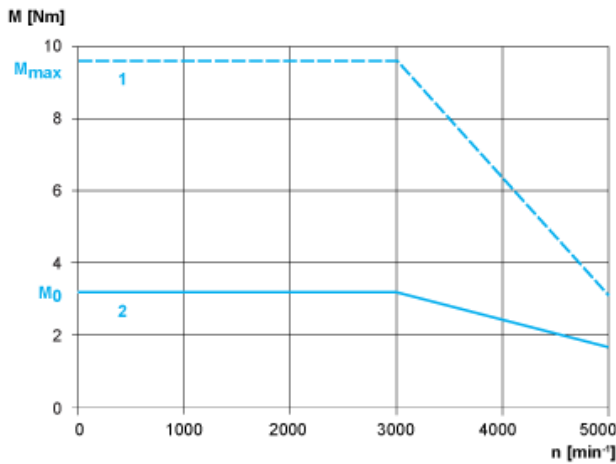
Dimensions of Motor



	mm	in.
L (without holding brake)	153.5	6.04
L (with holding brake)	180.5	7.11
Z	96	3.78

Torque/Speed Curves with 230 V Single/Three Phase Supply Voltage

Servo Motor with LXM28AU10 Servo Drive



- 1 : Peak torque
- 2 : Continuous torque