Product datasheet Characteristics

BCH2MB0131CF5C

servo motor BCH - 40mm - 100W - no oil seal - w key - brake - leads con



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

Complementary

Complementary	
Maximum mechanical speed	5000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Single phase Three phase
Continuous stall current	0.81 A
Continuous stall torque	0.32 N.m for LXM28 at 0.9 A, 220 V, single phase 0.32 N.m for LXM28 at 0.9 A, 220 V, three phase 0.32 N.m for LXM28 at 1.8 A, 110 V, single phase
Continuous power	100 W
Peak stall torque	0.96 N.m for LXM28 at 0.9 A, 220 V, single phase 0.96 N.m for LXM28 at 0.9 A, 220 V, three phase 0.96 N.m for LXM28 at 1.8 A, 110 V, single phase
Nominal output power	100 W for LXM28 at 0.9 A, 220 V, single phase 100 W for LXM28 at 0.9 A, 220 V, three phase 100 W for LXM28 at 1.8 A, 110 V, single phase
Nominal torque	0.32 N.m for LXM28 at 0.9 A, 220 V, single phase 0.32 N.m for LXM28 at 0.9 A, 220 V, three phase 0.32 N.m for LXM28 at 1.8 A, 110 V, single phase
Nominal speed	3000 rpm for LXM28 at 0.9 A, 220 V, single phase 3000 rpm for LXM28 at 0.9 A, 220 V, three phase 3000 rpm for LXM28 at 1.8 A, 110 V, single phase
Maximum current Irms	2.65 A for LXM28 at 0.1 kW, 220 V 2.65 A for LXM28 at 0.1 kW, 110 V
Maximum permanent current	0.89 A
Product compatibility	LXM28 servo drive motor at 0.1 kW, 220 V, single phase LXM28 servo drive motor at 0.1 kW, 220 V, three phase LXM28 servo drive motor at 0.1 kW, 110 V, single phase
Shaft end	Keyed
Shaft diameter	8 mm
Shaft length	25 mm

Feedback type 20 bits single turn absolute encoder Holding brake With Holding torque 0.32 N.m built-in Mounting support Asian standard flange Motor flange size 40 mm Electrical connection Free lead Torque constant 0.4 N.m/A at 20 °C Back emf constant 24 V/krpm at 20 °C Rotor inertia 0.076 kg.cm² Stator resistance 23.4 Ohm at 20 °C Stator inductance 20.6 mH at 20 °C Stator electrical time constant 0.88 ms at 20 °C Maximum radial force Fr 85 N at 3000 rpm Maximum axial force Fa 40 N Brake pull-in power 4.35 W Type of cooling Natural convection	idth :
Holding torque O.32 N.m built-in Mounting support Asian standard flange Motor flange size 40 mm Electrical connection Free lead Torque constant O.4 N.m/A at 20 °C Back emf constant 24 V/krpm at 20 °C Rotor inertia O.076 kg.cm² Stator resistance 23.4 Ohm at 20 °C Stator inductance 20.6 mH at 20 °C Stator electrical time constant 0.88 ms at 20 °C Maximum radial force Fr 85 N at 3000 rpm Maximum axial force Fa 40 N Brake pull-in power 4.35 W	ack type
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Motor flange size 40 mm Electrical connection Free lead Torque constant 0.4 N.m/A at 20 °C Back emf constant 24 V/krpm at 20 °C Rotor inertia 0.076 kg.cm² Stator resistance 23.4 Ohm at 20 °C Stator inductance 20.6 mH at 20 °C Stator electrical time constant 0.88 ms at 20 °C Maximum radial force Fr 85 N at 3000 rpm Maximum axial force Fa 40 N Brake pull-in power 4.35 W	g torque
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Stator electrical time constant 0.88 ms at 20 °C Maximum radial force Fr 85 N at 3000 rpm Maximum axial force Fa 40 N Brake pull-in power 4.35 W	resistance :
Maximum radial force Fr 85 N at 3000 rpm Maximum axial force Fa 40 N Brake pull-in power 4.35 W	inductance :
Maximum axial force Fa 40 N Brake pull-in power 4.35 W	electrical time constant
Brake pull-in power 4.35 W	um radial force Fr
TO THE CONTRACT OF THE CONTRAC	um axial force Fa
Type of cooling Natural convection	pull-in power
Type of dodning Tradicial doffreedight	of cooling
Length 130 mm	
Number of motor stacks 2	er of motor stacks
Centring collar diameter 30 mm	ng collar diameter
Centring collar depth 3 mm	ng collar depth
Number of mounting holes 4	er of mounting holes
Mounting holes diameter 4.5 mm	ng holes diameter
Circle diameter of the mounting holes 46 mm	diameter of the mounting holes
Distance shaft shoulder-flange 3 mm	ce shaft shoulder-flange
Product weight 0.77 kg	ct weight

Environment

IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
Ambient air temperature for operation	040 °C

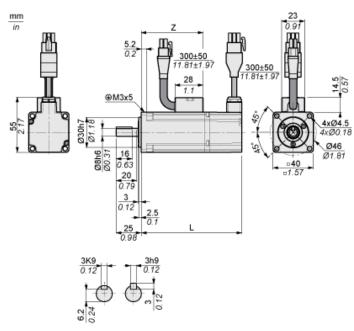
Contractual warranty

Warranty	18 months

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Dimensions

Dimensions of Motor

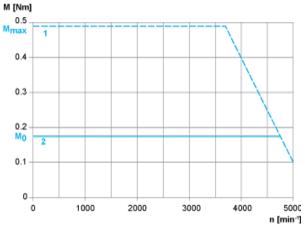


	mm	in.
L (without holding brake)	100	3.94
L (with holding brake)	130	5.12
Z	61.5	2.42

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

Servo Motor without shaft sealing ring and LXM28AU01●●● Servo Drive

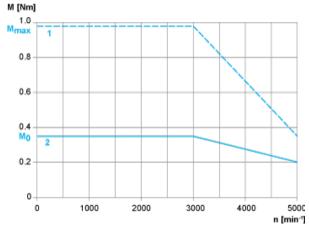


1: Peak torque2: Continuous torque

BCH2MB0131CF5C

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

Servo Motor with shaft sealing ring and LXM28AU01●●● Servo Drive



- 1: Peak torque
- 2: Continuous torque