Product datasheet





(!) Discontinued

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

BCH2LH1031CA6C

Discontinued on: 18 Apr 2024

! To be end-of-service on: 18 Apr 2026

Main

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

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	Without
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	2.4 kg.cm²
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	153.5 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
Net weight	4.6 kg

Environment

IP degree of protection	IP54 IM B5, IM V1 IP50 IM V3
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	18.1 cm
Package 1 Width	23.0 cm
Package 1 Length	36.0 cm
Package 1 Weight	6.47 kg



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Transparency RoHS/REACh

Well-being performance

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

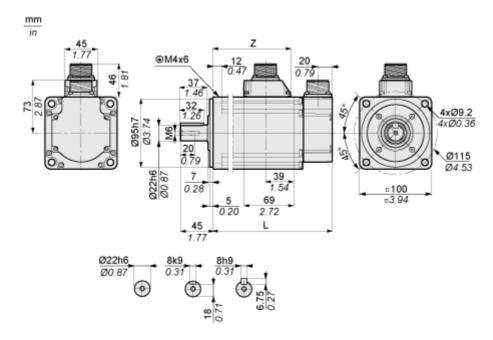
Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
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	

Dimensions Drawings

Dimensions

Dimensions of Motor



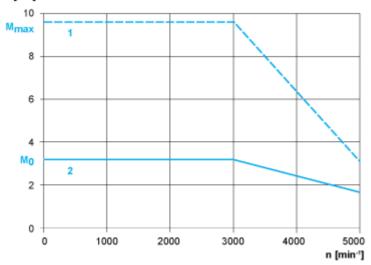
	mm	in.
L (without holding brake)	153.5	6.04
L (with holding brake)	180.5	7.11
Z	96	3.78

Performance Curves

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

Servo Motor with LXM28AU10●●● Servo Drive

M [Nm]



- 1: Peak torque
- 2: Continuous torque