

Product datasheet

Specifications



servo motor BCH, 100mm, 1000W,
w oil seal, w key, straight con

BCH2LH1033CA6C

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	Single phase Three phase
Continuous stall current	5.83 A
Continuous stall torque	3.18 N.m for LXM26D at 7 A, 220 V, single phase 3.18 N.m for LXM26D at 7 A, 220 V, three phase 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 LXM26D at 7 A, 220 V, single phase 9.54 N.m for LXM26D at 7 A, 220 V, three phase 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 LXM26D at 7 A, 220 V, single phase 1000 W for LXM26D at 7 A, 220 V, three phase 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 LXM26D at 7 A, 220 V, single phase 3.18 N.m for LXM26D at 7 A, 220 V, three phase 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 LXM26D at 7 A, 220 V, single phase 3000 rpm for LXM26D at 7 A, 220 V, three phase 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	LXM26D servo drive motor at 1 kW, 220 V, single phase LXM26D servo drive motor at 1 kW, 220 V, three phase 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.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	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	IP50 IM V3 IP65 IM B5, IM V1
Ambient air temperature for operation	-20...40 °C

Packing Units

Unit Type of Package 1	PCE
Package 1 Length	36.0 cm
Number of Units in Package 1	1
Package 1 Width	23.0 cm
Package 1 Height	18.1 cm
Package 1 Weight	6.47 kg

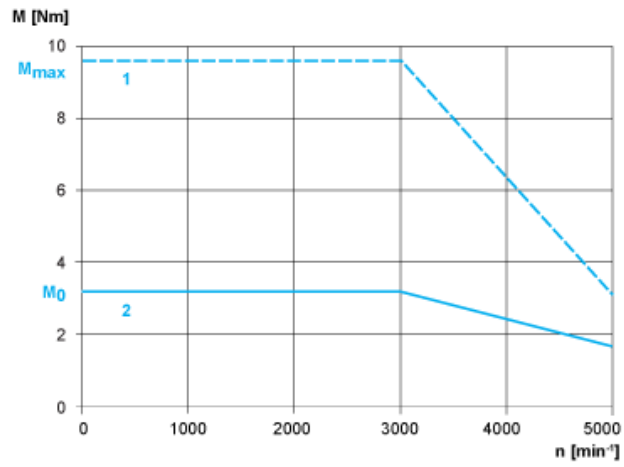
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

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

Servo Motor with LXM28AU10••• Servo Drive



- 1 : Peak torque
- 2 : Continuous torque