

BCH2MM0312CA6C

servo motor BCH, Lexium 28, 130mm, 300W,
with oil seal, smooth, straight connection



Main

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

Complementary

Maximum mechanical speed	3000 rpm
[Us] rated supply voltage	220 V 110 V
Network number of phases	Single phase Three phase
Continuous stall current	1.88 A
Continuous stall torque	2.86 N.M for LXM28... at 2.6 A, 220 V, single phase 2.86 N.M for LXM28... at 2.6 A, 220 V, three phase 2.86 N.m for LXM28... at 5.7 A, 110 V, single phase
Continuous power	300 W
Peak stall torque	8.59 N.M for LXM28... at 2.6 A, 220 V, single phase 8.59 N.M for LXM28... at 2.6 A, 220 V, three phase 8.59 N.m for LXM28... at 5.7 A, 110 V, single phase
Nominal output power	300 W for LXM28... at 2.6 A, 220 V, single phase 300 W for LXM28... at 2.6 A, 220 V, three phase 300 W for LXM28... at 5.7 A, 110 V, single phase
Nominal torque	2.86 N.M for LXM28... at 2.6 A, 220 V, single phase 2.86 N.M for LXM28... at 2.6 A, 220 V, three phase 2.86 N.m for LXM28... at 5.7 A, 110 V, single phase
Nominal speed	1000 rpm for LXM28... at 2.6 A, 220 V, single phase 1000 rpm for LXM28... at 2.6 A, 220 V, three phase 1000 rpm for LXM28... at 5.7 A, 110 V, single phase
Maximum current Irms	5.98 A for LXM28... at 0.3 kW, 220 V 5.98 A for LXM28... at 0.3 kW, 110 V
Maximum permanent current	2.09 A
Product compatibility	LXM28... servo drive motor at 0.3 kW, 220 V, single phase LXM28... servo drive motor at 0.3 kW, 220 V, three phase LXM28... servo drive motor at 0.3 kW, 110 V, single phase
Shaft end	Smooth shaft
Shaft diameter	22 mm
Shaft length	45 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	130 mm
Electrical connection	Connector MIL
Torque constant	1.52 N.m/A at 20 °C
Back emf constant	92 V/krpm at 20 °C

Rotor inertia	6.63 kg.cm ²
Stator resistance	1.93 Ohm at 20 °C
Stator inductance	24.9 mH at 20 °C
Stator electrical time constant	12.9 ms at 20 °C
Maximum radial force Fr	670 N at 1000 rpm
Maximum axial force Fa	200 N
Brake pull-in power	19.7 W
Type of cooling	Natural convection
Length	147 mm
Number of motor stacks	1
Centring collar diameter	110 mm
Centring collar depth	8 mm
Number of mounting holes	4
Mounting holes diameter	9.2 mm
Circle diameter of the mounting holes	145 mm
Distance shaft shoulder-flange	8 mm
Net weight	7 kg

Environment

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient air temperature for operation	-20...40 °C

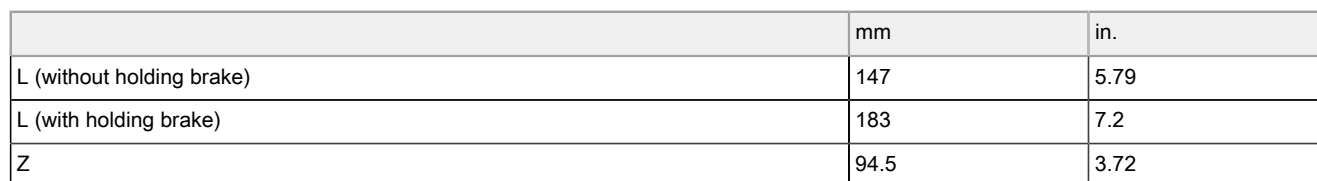
Packing Units

Unit Type of Package 1	PCE
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	7.91 kg

Offer Sustainability

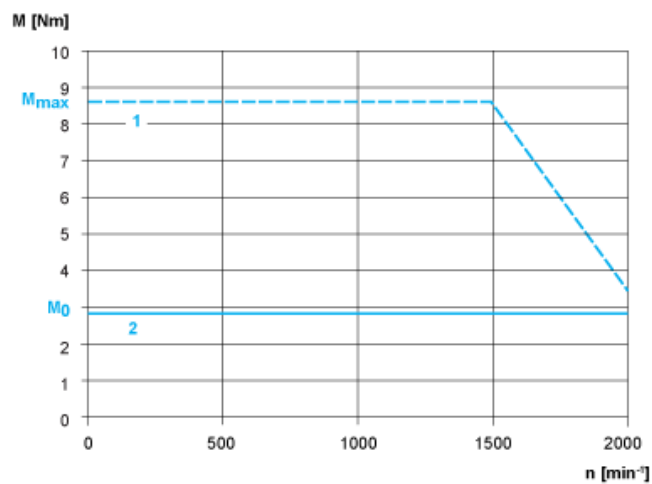
Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 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

Dimensions of Motor



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

Servo Motor with LXM28AU04●●● Servo Drive



- 1 : Peak torque
2 : Continuous torque