

Product data sheet

Specifications



servo motor BCH, 40mm, 100W, w oil seal, w key, leads con

BCH2MB0133CA5C

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	0.81 A
Continuous stall torque	0.32 N.m for LXM26D at 0.9 A, 220 V, single phase 0.32 N.m for LXM26D at 0.9 A, 220 V, three phase 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 LXM26D at 0.9 A, 220 V, single phase 0.96 N.m for LXM26D at 0.9 A, 220 V, three phase 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 LXM26D at 0.9 A, 220 V, single phase 100 W for LXM26D at 0.9 A, 220 V, three phase 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 LXM26D at 0.9 A, 220 V, single phase 0.32 N.m for LXM26D at 0.9 A, 220 V, three phase 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 LXM26D at 0.9 A, 220 V, single phase 3000 rpm for LXM26D at 0.9 A, 220 V, three phase 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	LXM26D servo drive motor at 0.1 kW, 220 V, single phase LXM26D servo drive motor at 0.1 kW, 220 V, three phase LXM28... servo drive motor at 0.1 kW, 220 V, single phase LXM28... servo drive motor at 0.1 kW, 220 V, three phase

Shaft end	Keyed
Shaft diameter	8 mm
Shaft length	25 mm
Key width	3 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	Without
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	0.075 kg.cm ²
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
Length	100 mm
Number of motor stacks	2
Centring collar diameter	30 mm
Centring collar depth	3 mm
Number of mounting holes	4
Mounting holes diameter	4.5 mm
Circle diameter of the mounting holes	46 mm
Distance shaft shoulder-flange	3 mm
Net weight	0.56 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	24.324 cm
Number of Units in Package 1	1
Package 3 Width	60 cm
Package 3 Weight	5200 g
Package 2 Width	15 cm
Package 2 Height	15 cm

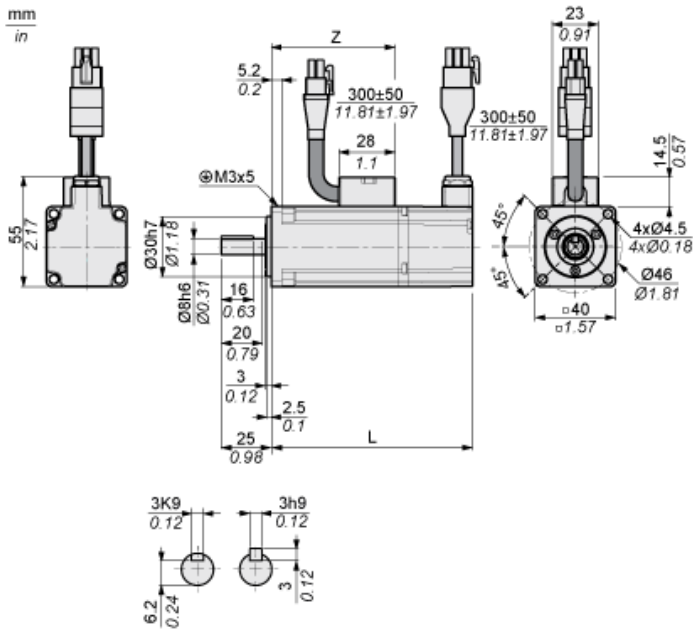
Package 2 Weight	51.06 kg
Number of Units in Package 3	60
Unit Type of Package 3	S06
Package 3 Height	73.5 cm
Package 3 Length	80 cm
Package 1 Width	13.14 cm
Package 1 Height	8.295 cm
Package 1 Weight	86.5 g
Number of Units in Package 2	60
Unit Type of Package 2	S01
Package 2 Length	40 cm

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
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Dimensions

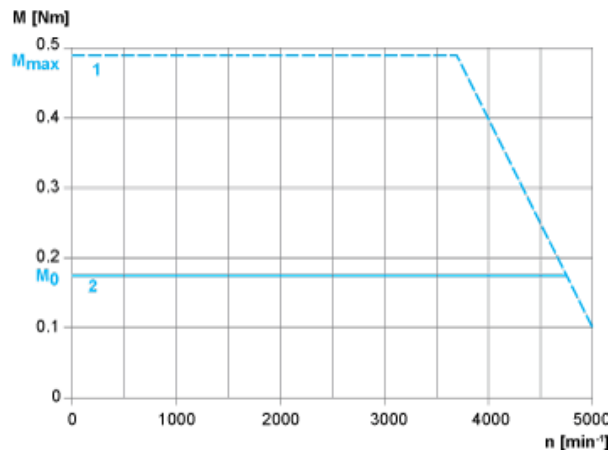
Dimensions of Motor



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

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

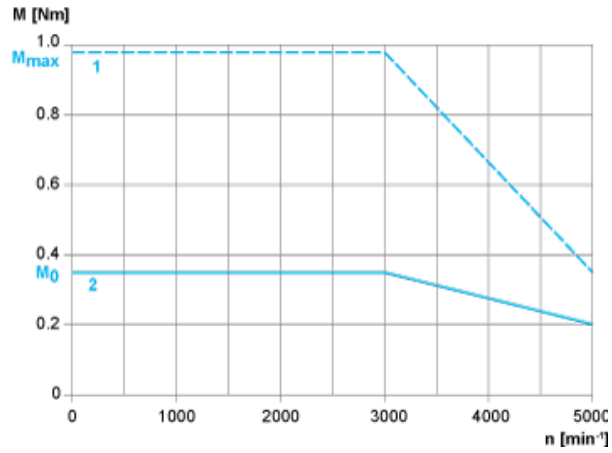
Servo Motor without shaft sealing ring and LXM28AU01●●● Servo Drive



- 1 : Peak torque
- 2 : Continuous torque

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