Product datasheet

Specification





(!) Discontinued

servo motor BCH - 130mm - 850W - no oil seal - smooth - brake - straight con

BCH2MM0810CF6C

! 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	3000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Three phase Single phase
Continuous stall current	5.62 A
Continuous stall torque	5.39 N.m for LXM28 at 7 A, 220 V, single phase 5.39 N.m for LXM28 at 7 A, 220 V, three phase
Continuous power	850 W
Peak stall torque	13.8 N.m for LXM28 at 7 A, 220 V, single phase 13.8 N.m for LXM28 at 7 A, 220 V, three phase
Nominal output power	850 W for LXM28 at 7 A, 220 V, single phase 850 W for LXM28 at 7 A, 220 V, three phase
Nominal torque	5.39 N.m for LXM28 at 7 A, 220 V, single phase 5.39 N.m for LXM28 at 7 A, 220 V, three phase
Nominal speed	1500 rpm for LXM28 at 7 A, 220 V, single phase 1500 rpm for LXM28 at 7 A, 220 V, three phase
Maximum current Irms	14.96 A for LXM28 at 0.85 kW, 220 V
Maximum permanent current	6.29 A
Product compatibility	LXM28 servo drive motor at 0.85 kW, 220 V, single phase LXM28 servo drive motor at 0.85 kW, 220 V, three phase
Shaft end	Smooth shaft
Shaft diameter	22 mm
Shaft length	55 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	With
Holding torque	9.6 N.m built-in
mounting support	Asian standard flange
Motor flange size	130 mm

Electrical connection	Connector MIL
Torque constant	0.96 N.m/A at 20 °C
Back emf constant	58 V/krpm at 20 °C
Rotor inertia	14.1 kg.cm²
Stator resistance	0.34 Ohm at 20 °C
Stator inductance	4.5 mH at 20 °C
Stator electrical time constant	13.24 ms at 20 °C
Maximum radial force Fr	670 N at 1500 rpm
Maximum axial force Fa	200 N
Brake pull-in power	19.7 W
Type of cooling	Natural convection
Length	216 mm
Number of motor stacks	4
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	10.9 kg

Environment

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

Packing Units Unit Type of Package 1

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	11.47 kg



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

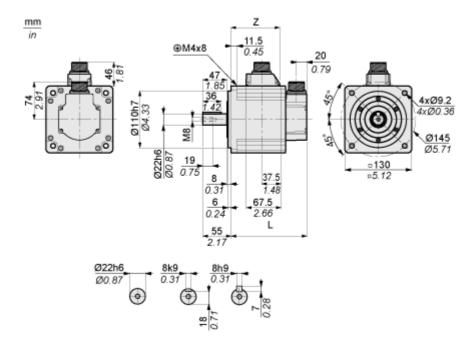
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish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

BCH2MM0810CF6C

Dimensions Drawings

Dimensions

Dimensions of Motor



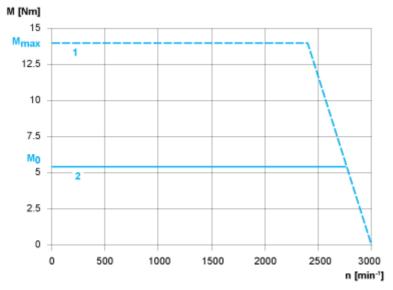
	mm	in.
L (without holding brake)	187	7.36
L (with holding brake)	216	8.5
Z	134.5	5.30

BCH2MM0810CF6C

Performance Curves

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

Servo Motor with LXM28AU10●●● Servo Drive



- 1: Peak torque
- 2: Continuous torque