Product datasheet

Specifications





servo motor BCH - 60mm - 400W - no oil seal - smooth - leads con

BCH2LD0430CA5C

() Discontinued on: 18 Apr 2024

() To be end-of-service on: 18 Apr 2026

(!) Discontinued

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 110 V
Network number of phases	Single phase Three phase
Continuous stall current	2.19 A
Continuous stall torque	1.27 N.m for LXM28 at 2.6 A, 220 V, single phase 1.27 N.m for LXM28 at 2.6 A, 220 V, three phase 1.27 N.m for LXM28 at 5.7 A, 110 V, single phase
Continuous power	400 W
Peak stall torque	3.81 N.m for LXM28 at 2.6 A, 220 V, single phase 3.81 N.m for LXM28 at 2.6 A, 220 V, three phase 3.81 N.m for LXM28 at 5.7 A, 110 V, single phase
Nominal output power	400 W for LXM28 at 2.6 A, 220 V, single phase 400 W for LXM28 at 2.6 A, 220 V, three phase 400 W for LXM28 at 5.7 A, 110 V, single phase
Nominal torque	1.27 N.m for LXM28 at 2.6 A, 220 V, single phase 1.27 N.m for LXM28 at 2.6 A, 220 V, three phase 1.27 N.m for LXM28 at 5.7 A, 110 V, single phase
Nominal speed	3000 rpm for LXM28 at 2.6 A, 220 V, single phase 3000 rpm for LXM28 at 2.6 A, 220 V, three phase 3000 rpm for LXM28 at 5.7 A, 110 V, single phase
Maximum current Irms	7.76 A for LXM28 at 0.4 kW, 220 V 7.76 A for LXM28 at 0.4 kW, 110 V
Maximum permanent current	2.5 A
Product compatibility	LXM28 servo drive motor at 0.4 kW, 220 V, single phase LXM28 servo drive motor at 0.4 kW, 220 V, three phase LXM28 servo drive motor at 0.4 kW, 110 V, single phase
Shaft end	Smooth shaft
Shaft diameter	14 mm
Shaft length	30 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	Without

mounting support	Asian standard flange
Motor flange size	60 mm
Electrical connection	Free lead
Torque constant	0.58 N.m/A at 20 °C
Back emf constant	35 V/krpm at 20 °C
Rotor inertia	0.27 kg.cm ²
Stator resistance	5.2 Ohm at 20 °C
Stator inductance	12 mH at 20 °C
Stator electrical time constant	2.31 ms at 20 °C
Maximum radial force Fr	200 N at 3000 rpm
Maximum axial force Fa	70 N
Brake pull-in power	11.2 W
Type of cooling	Natural convection
Length	129 mm
Number of motor stacks	2
Centring collar diameter	50 mm
Centring collar depth	5.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	70 mm
Distance shaft shoulder-flange	5.5 mm
Net weight	1.45 kg
Net weight	1.45 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	11.1 cm
Package 1 Width	14.5 cm
Package 1 Length	26.5 cm
Package 1 Weight	2.08 kg
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.52 kg

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

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

Certifications & Standards

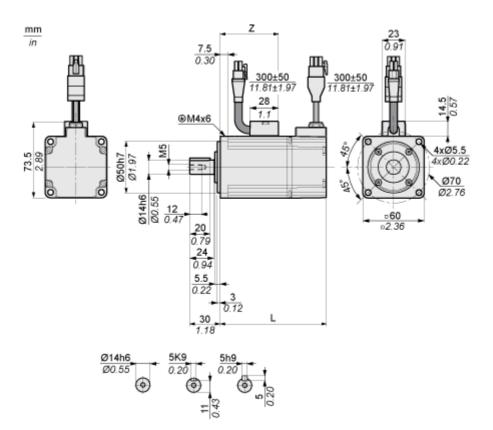
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific was collection and never end up in rubbish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

Product datasheet

Dimensions Drawings

Dimensions

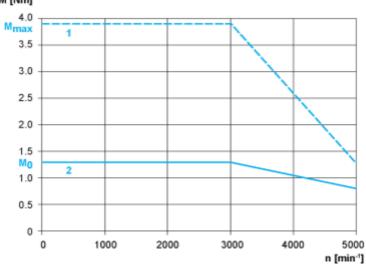
Dimensions of Motor



	mm	in.
L (without holding brake)	129	5.08
L (with holding brake)	165	6.5
Z	82	3.23

Performance Curves

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



Servo Motor with LXM28AU04••• Servo Drive M [Nm]

- 1: Peak torque
- 2: Continuous torque