

servo motor BCH, Lexium 28, 80mm, 750W, 1,19kg.cmรเยียฒ, with oil seal, with key, leads connection

BCH2LF0733CA5C

## Main

IVIAIII		
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	4.01 A	
Continuous stall torque	2.39 N.m for LXM26D at 4.5 A, 220 V, single phase 2.39 N.m for LXM26D at 4.5 A, 220 V, three phase 2.39 N.m for LXM28 at 4.5 A, 220 V, single phase 2.39 N.m for LXM28 at 4.5 A, 220 V, three phase 2.39 N.m for LXM28 at 9 A, 110 V, single phase	
Continuous power	750 W	
Peak stall torque	7.16 N.m for LXM26D at 4.5 A, 220 V, single phase 7.16 N.m for LXM26D at 4.5 A, 220 V, three phase 7.16 N.m for LXM28 at 4.5 A, 220 V, single phase 7.16 N.m for LXM28 at 4.5 A, 220 V, three phase 7.16 N.m for LXM28 at 9 A, 110 V, single phase	
Nominal output power	750 W for LXM26D at 4.5 A, 220 V, single phase 750 W for LXM26D at 4.5 A, 220 V, three phase 750 W for LXM28 at 4.5 A, 220 V, single phase 750 W for LXM28 at 4.5 A, 220 V, three phase 750 W for LXM28 at 9 A, 110 V, single phase	
Nominal torque	2.39 N.m for LXM26D at 4.5 A, 220 V, single phase 2.39 N.m for LXM26D at 4.5 A, 220 V, three phase 2.39 N.m for LXM28 at 4.5 A, 220 V, single phase 2.39 N.m for LXM28 at 4.5 A, 220 V, three phase 2.39 N.m for LXM28 at 9 A, 110 V, single phase	
Nominal speed	3000 rpm for LXM26D at 4.5 A, 220 V, single phase 3000 rpm for LXM26D at 4.5 A, 220 V, three phase 3000 rpm for LXM28 at 4.5 A, 220 V, single phase 3000 rpm for LXM28 at 4.5 A, 220 V, three phase 3000 rpm for LXM28 at 9 A, 110 V, single phase	
Maximum current Irms	13.23 A for LXM28 at 0.75 kW, 220 V	

13.23 A for LXM28... at 0.75 kW, 110 V

4.29 A

Maximum permanent current

Product compatibility	LXM26D servo drive motor at 0.75 kW, 220 V, single phase LXM26D servo drive motor at 0.75 kW, 220 V, three phase LXM28 servo drive motor at 0.75 kW, 220 V, single phase LXM28 servo drive motor at 0.75 kW, 220 V, three phase LXM28 servo drive motor at 0.75 kW, 110 V, single phase
Shaft end	Keyed
Shaft diameter	19 mm
Shaft length	35 mm
key width	6 mm
Feedback type	20 bits single turn absolute encoder
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	80 mm
Electrical connection	Free lead
Torque constant	0.6 N.m/A at 20 °C
Back emf constant	36 V/krpm at 20 °C
Number of motor poles	4.0
Rotor inertia	1.19 kg.cm <sup>2</sup>
Stator resistance	1.5 Ohm at 20 °C
Stator inductance	6.1 mH at 20 °C
Stator electrical time constant	4.07 ms at 20 °C
Maximum radial force Fr	332 N at 3000 rpm
Maximum axial force Fa	115 N
Brake pull-in power	10.2 W
type of cooling	Natural convection
Length	138 mm
Number of motor stacks	2
Centring collar diameter	70 mm
centring collar depth	4 mm
Number of mounting holes	4
Mounting holes diameter	6.6 mm
Circle diameter of the mounting holes	90 mm
Distance shaft shoulder-flange	4 mm
Net weight	2.8 kg
Sizing reference	BCH2
Network number of phases	1
Accuracy error [angular]	0.044 °
Temperature copper hot	135 °C
Temperature magnet hot	100 °C
Temperature magnet rt	20 °C

# **Environment**

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1
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	14.200 cm
Package 1 Width	17.500 cm
Package 1 Length	30.000 cm
Package 1 Weight	3.263 kg
Unit Type of Package 2	S03
Number of Units in Package 2	2
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.993 kg



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability >

∇ Environmental footprint	
Total lifecycle Carbon footprint	3338
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
PVC free	Yes

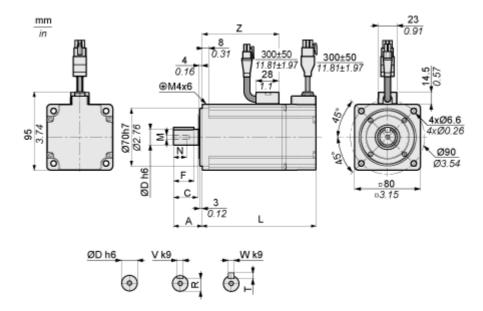
#### **Use Again**

○ Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No

## **Dimensions Drawings**

#### **Dimensions**

#### **Dimensions of Motor**

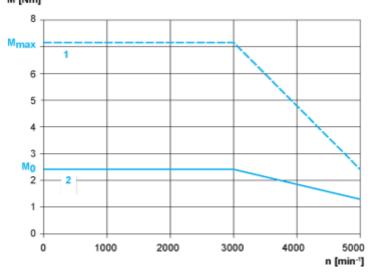


	mm	in.
L (without holding brake)	138	5.43
L (with holding brake)	178	7.01
A	35	1.38
С	29.5	1.16
D	19	0.75
F	25	0.98
R	15.5	0.61
Т	6	0.24
V	6	0.24
W	6	0.24
Z	93	3.66

#### Performance Curves

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

# Servo Motor with LXM28AU02●●● Servo Drive M [Nm]



- 1: Peak torque
- 2: Continuous torque