Product data sheet
Characteristics

BCH2MM0523CF6C
servo motor BCH, Lexium 28, 130mm, 500W, 6.91kg.cm², with oil seal, with key, brake, straight connection



Main

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

Complementary

Maximum mechanical speed	3000 Rpm
[Us] rated supply voltage	220 V 110 V
Network number of phases	Three phase Single phase
Continuous stall current	2.89 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	500 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	500 W for LXM26D at 4.5 A, 220 V, single phase 500 W for LXM26D at 4.5 A, 220 V, three phase 500 W for LXM28... at 4.5 A, 220 V, single phase 500 W for LXM28... at 4.5 A, 220 V, three phase 500 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	2000 rpm for LXM26D at 4.5 A, 220 V, single phase 2000 rpm for LXM26D at 4.5 A, 220 V, three phase 2000 rpm for LXM28... at 4.5 A, 220 V, single phase 2000 rpm for LXM28... at 4.5 A, 220 V, three phase 2000 rpm for LXM28... at 9 A, 110 V, single phase
Maximum current Irms	9.18 A for LXM28... at 0.5 kW, 220 V 9.18 A for LXM28... at 0.5 kW, 110 V
Maximum permanent current	3.24 A

Product compatibility	LXM26D servo drive motor at 0.5 kW, 220 V, single phase LXM26D servo drive motor at 0.5 kW, 220 V, three phase LXM28... servo drive motor at 0.5 kW, 220 V, single phase LXM28... servo drive motor at 0.5 kW, 220 V, three phase LXM28... servo drive motor at 0.5 kW, 110 V, single phase
Shaft end	Keyed
Shaft diameter	22 Mm
Shaft length	45 Mm
Key width	8 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	0.83 N.M/A at 20 °C
Back emf constant	50 V/Krpm at 20 °C
Number of motor poles	5.0
Rotor inertia	6.91 Kg.Cm²
Stator resistance	0.62 Ohm at 20 °C
Stator inductance	7.14 MH at 20 °C
Stator electrical time constant	11.94 Ms at 20 °C
Maximum radial force Fr	670 N at 2000 rpm
Maximum axial force Fa	200 N
Brake pull-in power	19.7 W
Type of cooling	Natural convection
Length	183 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	8.2 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
Inertia	6.9 Kg.Cm² of brake 6.91 Kg.Cm² of motor

Environment

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient air temperature for operation	0…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 Cm
Package 1 Length	36 Cm
Package 1 Weight	9200 G

Offer Sustainability

Total lifecycle Carbon footprint	2 489 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	52.7287892377
Carbon footprint of the manufacturing phase [A1 to A3]	53 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1.1870269058
Carbon footprint of the distribution phase [A4]	1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0586365919
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	2434.4278872716
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	2 434 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.9881026906
Carbon footprint of the end-of-life phase [C1 to C4]	1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	2489
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised