Product data sheet
Characteristics

BCH2MB0133CF5C
servo motor BCH, Lexium 28, 40mm, 100W, 0.076kg.cm², with oil seal, with key, brake, leads 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	5000 Rpm
[Us] rated supply voltage	220 V 110 V
Network number of phases	Three phase Single 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 LXM28... servo drive motor at 0.1 kW, 110 V, single 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	With
Holding torque	0.32 N.M built-in
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
Number of motor poles	4.0
Rotor inertia	0.076 Kg.Cm²
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	130 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	0.77 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	0.066 Kg.Cm² of brake 0.076 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	8.500 Cm
Package 1 Width	13.000 Cm
Package 1 Length	24.200 Cm
Package 1 Weight	1.032 Kg
Unit Type of Package 2	S02

Number of Units in Package 2	3
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	3.491 Kg

Offer Sustainability

Total lifecycle Carbon footprint	1 077 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	6.0179596413
Carbon footprint of the manufacturing phase [A1 to A3]	6 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1354758969
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0066922197
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1070.8065815257
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	1 071 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]	0.1127725897
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	1077
Packaging made with recycled cardboard	Yes
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