Product data sheet
Characteristics

BCH2MR3523CA6C
servo motor BCH, Lexium 28, 180mm, 3500W, 53.56kg.cm², with oil seal, with key, 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
Network number of phases	Three phase
Continuous stall current	16.55 A
Continuous stall torque	16.7 N.M for LXM26D at 22.9 A, 220 V, three phase 16.7 N.M for LXM28 at 22.9 A, 220 V, three phase
Continuous power	3500 W
Peak stall torque	50.3 N.M for LXM26D at 22.9 A, 220 V, three phase 50.3 N.M for LXM28... at 22.9 A, 220 V, three phase
Nominal output power	3500 W for LXM26D at 22.9 A, 220 V, three phase 3500 W for LXM28... at 22.9 A, 220 V, three phase
Nominal torque	16.7 N.M for LXM26D at 22.9 A, 220 V, three phase 16.7 N.M for LXM28... at 22.9 A, 220 V, three phase
Nominal speed	2000 rpm for LXM26D at 22.9 A, 220 V, three phase 2000 rpm for LXM28... at 22.9 A, 220 V, three phase
Maximum current Irms	57.8 A for LXM26D at 3.5 kW, 220 V 57.8 A for LXM28... at 3.5 kW, 220 V
Maximum permanent current	19 A
Product compatibility	LXM26D servo drive motor at 3.5 kW, 220 V, three phase LXM28... servo drive motor at 3.5 kW, 220 V, three phase
Shaft end	Keyed
Shaft diameter	35 Mm
Shaft length	79 Mm
Key width	10 Mm
Feedback type	20 bits single turn absolute encoder
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	180 Mm
Electrical connection	Connector MIL
Torque constant	1.01 N.M/A at 20 °C
Back emf constant	61 V/Krpm at 20 °C
Number of motor poles	5.0

Rotor inertia	53.56 Kg.Cm²
Stator resistance	0.157 Ohm at 20 °C
Stator inductance	2.57 MH at 20 °C
Stator electrical time constant	18.66 Ms at 20 °C
Maximum radial force Fr	1200 N at 2000 rpm
Maximum axial force Fa	497 N
Brake pull-in power	49.6 W
Type of cooling	Natural convection
Length	202 Mm
Number of motor stacks	2
Centring collar diameter	114.3 Mm
Centring collar depth	4 Mm
Number of mounting holes	4
Mounting holes diameter	13.5 Mm
Circle diameter of the mounting holes	200 Mm
Distance shaft shoulder-flange	4 Mm
Net weight	18.5 Kg
Sizing reference	BCH2
Network number of phases	3
Accuracy error [angular]	0.044 °
Temperature copper hot	135 °C
Temperature magnet hot	100 °C
Temperature magnet rt	20 °C
Inertia	0.0 Kg.Cm² of brake 53.55 Kg.Cm² of motor

Environment

IP degree of protection	IP50 IM V3 IP65 IM B5, IM V1
Ambient air temperature for operation	-20…40 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	24.5 Cm
Package 1 Width	29 Cm
Package 1 Length	58.5 Cm
Package 1 Weight	20180 G
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	50 Cm
Package 2 Width	80 Cm
Package 2 Length	60 Cm
Package 2 Weight	90.7 Kg

Offer Sustainability

Total lifecycle Carbon footprint	9 170 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	115.6594529148
Carbon footprint of the manufacturing phase [A1 to A3]	116 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2.603717713
Carbon footprint of the distribution phase [A4]	3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1286180897
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	9049.6572596157
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	9 050 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]	2.1673817713
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	9170
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, wh
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