Product data sheet
Characteristics

BCH2LH2033CA6C
servo motor BCH; Lexium 28; 100mm; 2000W; 4.28kg.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	5000 Rpm
[Us] rated supply voltage	220 V
Network number of phases	Three phase
Continuous stall current	9.87 A
Continuous stall torque	6.37 N.M for LXM26D at 12 A, 220 V, three phase 6.37 N.M for LXM28 at 12 A, 220 V, three phase
Continuous power	2000 W
Peak stall torque	19.11 N.M for LXM26D at 12 A, 220 V, three phase 19.11 N.M for LXM28... at 12 A, 220 V, three phase
Nominal output power	2000 W for LXM26D at 12 A, 220 V, three phase 2000 W for LXM28... at 12 A, 220 V, three phase
Nominal torque	6.37 N.M for LXM26D at 12 A, 220 V, three phase 6.37 N.M for LXM28... at 12 A, 220 V, three phase
Nominal speed	3000 rpm for LXM26D at 12 A, 220 V, three phase 3000 rpm for LXM28... at 12 A, 220 V, three phase
Maximum current Irms	32.3 A for LXM26D at 2 kW, 220 V 32.3 A for LXM28... at 2 kW, 220 V
Maximum permanent current	10.27 A
Product compatibility	LXM26D servo drive motor at 2 kW, 220 V, three phase LXM28... servo drive motor at 2 kW, 220 V, three 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	Without
Mounting support	Asian standard flange
Motor flange size	100 Mm
Electrical connection	Connector MIL
Torque constant	0.65 N.M/A at 20 °C
Back emf constant	39 V/Krpm at 20 °C
Number of motor poles	5.0

Rotor inertia	4.28 Kg.Cm²
Stator resistance	0.36 Ohm at 20 °C
Stator inductance	2.59 MH at 20 °C
Stator electrical time constant	7.19 Ms at 20 °C
Maximum radial force Fr	570 N at 3000 rpm
Maximum axial force Fa	200 N
Brake pull-in power	10.4 W
Type of cooling	Natural convection
Length	198.5 Mm
Number of motor stacks	2
Centring collar diameter	95 Mm
Centring collar depth	7 Mm
Number of mounting holes	4
Mounting holes diameter	9.2 Mm
Circle diameter of the mounting holes	115 Mm
Distance shaft shoulder-flange	7 Mm
Net weight	6.7 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 4.27 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	30.000 Cm
Package 1 Width	30.000 Cm
Package 1 Length	40.000 Cm
Package 1 Weight	8.049 Kg

Offer Sustainability

Total lifecycle Carbon footprint	7 516 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	48.5448744395
Carbon footprint of the manufacturing phase [A1 to A3]	49 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1.0928389013
Carbon footprint of the distribution phase [A4]	1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0539839058
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	7465.2140072753
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	7 465 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]	0.9096988901
Carbon footprint of the end-of-life phase [C1 to C4]	0.9 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Total lifecycle Carbon footprint	7516
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