Product data sheet
Characteristics

BCH2MM0813CA6C
servo motor BCH, Lexium 28, 130mm, 850W, 13.5kg.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	Single phase Three phase
Continuous stall current	5.62 A
Continuous stall torque	5.39 N.M for LXM26D at 7 A, 220 V, single phase 5.39 N.M for LXM26D at 7 A, 220 V, three phase 5.39 N.M for LXM28 at 7 A, 220 V, single phase 5.39 N.M for LXM28 at 7 A, 220 V, three phase
Continuous power	850 W
Peak stall torque	13.8 N.M for LXM26D at 7 A, 220 V, single phase 13.8 N.M for LXM26D at 7 A, 220 V, three phase 13.8 N.M for LXM28... at 7 A, 220 V, single phase 13.8 N.M for LXM28... at 7 A, 220 V, three phase
Nominal output power	850 W for LXM26D at 7 A, 220 V, single phase 850 W for LXM26D at 7 A, 220 V, three phase 850 W for LXM28... at 7 A, 220 V, single phase 850 W for LXM28... at 7 A, 220 V, three phase
Nominal torque	5.39 N.M for LXM26D at 7 A, 220 V, single phase 5.39 N.M for LXM26D at 7 A, 220 V, three phase 5.39 N.M for LXM28... at 7 A, 220 V, single phase 5.39 N.M for LXM28... at 7 A, 220 V, three phase
Nominal speed	1500 rpm for LXM26D at 7 A, 220 V, single phase 1500 rpm for LXM26D at 7 A, 220 V, three phase 1500 rpm for LXM28... at 7 A, 220 V, single phase 1500 rpm for LXM28... at 7 A, 220 V, three phase
Maximum current Irms	14.96 A for LXM28... at 0.85 kW, 220 V
Maximum permanent current	6.29 A
Product compatibility	LXM26D servo drive motor at 0.85 kW, 220 V, single phase LXM26D servo drive motor at 0.85 kW, 220 V, three phase LXM28... servo drive motor at 0.85 kW, 220 V, single phase LXM28... servo drive motor at 0.85 kW, 220 V, three phase
Shaft end	Keyed
Shaft diameter	19 Mm
Shaft length	48 Mm

Key width	6 Mm
Feedback type	20 bits single turn absolute encoder
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	130 Mm
Electrical connection	Connector MIL
Torque constant	0.96 N.M/A at 20 °C
Back emf constant	58 V/Krpm at 20 °C
Number of motor poles	5.0
Rotor inertia	13.5 Kg.Cm²
Stator resistance	0.34 Ohm at 20 °C
Stator inductance	4.3 MH at 20 °C
Stator electrical time constant	13.24 Ms at 20 °C
Maximum radial force Fr	670 N at 1500 rpm
Maximum axial force Fa	200 N
Brake pull-in power	19.7 W
Type of cooling	Natural convection
Length	187 Mm
Number of motor stacks	4
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	9.6 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	0.0 Kg.Cm² of brake 13.49 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	18.1 Cm
Package 1 Width	23 Cm
Package 1 Length	36 Cm
Package 1 Weight	19970 G

Offer Sustainability

Total lifecycle Carbon footprint	4 640 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	114.4558609865
Carbon footprint of the manufacturing phase [A1 to A3]	114 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2.5766225336
Carbon footprint of the distribution phase [A4]	3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1272796457
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.