Product data sheet
Characteristics

BCH2MR2023CA6C
servo motor BCH, Lexium 28, 180mm, 2000W, 26.5kg.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	Three phase
Continuous stall current	8.75 A
Continuous stall torque	9.55 N.M for LXM26D at 12 A, 220 V, three phase 9.55 N.M for LXM28 at 12 A, 220 V, three phase 9.55 N.M
Continuous power	2000 W
Peak stall torque	28.65 N.M for LXM26D at 12 A, 220 V, three phase 28.65 N.M for LXM28 at 12 A, 220 V, three phase 28.65 N.M
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 2000 W
Nominal torque	9.55 N.M for LXM26D at 12 A, 220 V, three phase 9.55 N.M for LXM28 at 12 A, 220 V, three phase 9.55 N.M
Nominal speed	2000 rpm 2000 rpm for LXM26D at 12 A, 220 V, three phase 2000 rpm for LXM28 at 12 A, 220 V, three phase
Maximum current Irms	35.4 A at 2 kW, 220 V 35.4 A for LXM28 at 2 kW, 220 V
Maximum permanent current	9.6 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	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	1.09 N.M/A at 20 °C
Back emf constant	66 V/Krpm at 20 °C
Number of motor poles	5.0
Rotor inertia	26.5 Kg.Cm²
Stator resistance	0.572 Ohm at 20 °C
Stator inductance	6.1 MH at 20 °C
Stator electrical time constant	15.49 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	169 Mm
Number of motor stacks	1
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	13 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 26.49 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	24.5 Cm
Package 1 Width	29 Cm
Package 1 Length	58.5 Cm
Package 1 Weight	15.18 Kg

Offer Sustainability

Total lifecycle Carbon footprint	6 474 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	87.0025022422
Carbon footprint of the manufacturing phase [A1 to A3]	87 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1.9585943946
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0967503767
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	6383.5595144293
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	6 384 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]	1.6303694395
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	6474
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