Product data sheet
Characteristics

BMH0702P11A2A
servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, keyed shaft, without brake, IP54, 128bit encoder, 3 phases



Main

Device short name	BMH
Product or component type	Servo motor
Maximum mechanical speed	8000 Rpm
Continuous stall torque	2.5 N.M for LXM32.D12N4 at 3 A, 400 V, three phase 2.5 N.M for LXM32.D12N4 at 3 A, 480 V, three phase
Peak stall torque	7.4 N.M for LXM32.D12N4 at 3 A, 400 V, three phase 7.4 N.M for LXM32.D12N4 at 3 A, 480 V, three phase
Nominal output power	700 W for LXM32.D12N4 at 3 A, 400 V, three phase 700 W for LXM32.D12N4 at 3 A, 480 V, three phase
Nominal torque	2.2 N.M for LXM32.D12N4 at 3 A, 400 V, three phase 2.2 N.M for LXM32.D12N4 at 3 A, 480 V, three phase
Nominal speed	3000 rpm for LXM32.D12N4 at 3 A, 400 V, three phase 3000 rpm for LXM32.D12N4 at 3 A, 480 V, three phase
Product compatibility	LXM32.D12N4 at 400...480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 standard
Speed feedback resolution	131072 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	2.94 A
Continuous power	1.51 W
Maximum current Irms	9.65 A for LXM32.D12N4
Maximum permanent current	9.68 A
Second shaft	Without second shaft end
Shaft diameter	11 Mm
Shaft length	23 Mm
Key width	18 Mm
Feedback type	Single turn SinCos Hiperface
Motor flange size	70 Mm
Number of motor stacks	2
Torque constant	0.84 N.M/A at 120 °C

Back emf constant	54.08 V/Krpm at 120 °C
Number of motor poles	5.0
Rotor inertia	1.13 Kg.Cm²
Stator resistance	3.8 Ohm at 20 °C
Stator inductance	5.89 MH at 20 °C
Stator electrical time constant	3.2 Ms at 20 °C
Maximum radial force Fr	710 N at 1000 rpm 560 N at 2000 rpm 490 N at 3000 rpm 450 N at 4000 rpm 410 N at 5000 rpm 390 N at 6000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	154 Mm
Centring collar diameter	60 Mm
Centring collar depth	2.5 Mm
Number of mounting holes	4
Mounting holes diameter	5.5 Mm
Circle diameter of the mounting holes	82 Mm
Net weight	2.3 Kg
Sizing reference	BMH0702P
Network number of phases	3
Accuracy error [angular]	1.4 °
Temperature copper hot	135 °C
Temperature magnet hot	100 °C
Temperature magnet rt	20 °C
Output current 3s peak	9.65 A
Inertia	0.0 Kg.Cm² of brake 1.129 Kg.Cm² of motor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.8 Cm
Package 1 Width	17.5 Cm
Package 1 Length	37.8 Cm
Package 1 Weight	2.973 Kg
Unit Type of Package 2	S04
Number of Units in Package 2	4
Package 2 Height	30 Cm
Package 2 Width	40 Cm
Package 2 Length	60 Cm
Package 2 Weight	12.542 Kg
Unit Type of Package 3	P12
Number of Units in Package 3	16
Package 3 Height	45.000 Cm
Package 3 Width	80.000 Cm
Package 3 Length	120.000 Cm
Package 3 Weight	62.168 Kg

Offer Sustainability

Total lifecycle Carbon footprint	786 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	21.4296747445
Carbon footprint of the manufacturing phase [A1 to A3]	21 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.3826789489
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.

Carbon footprint of the installation phase [A5]	0.0227329828
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	763.9681625741
Carbon footprint of the use phase [B2, B3, B4, B6]	764 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.2417138453
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.
Total lifecycle Carbon footprint	786
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	A7df881f-135f-4256-b8c2-ea55d4c9a151
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
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	No need of specific recycling operations
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised