Product data sheet
Characteristics

BMH0703P01F2A
servo motor BMH, Lexium 32, 3.4Nm, 8000rpm, untapped shaft, with 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	3.4 N.M for LXM32.D18N4 at 6 A, 400 V, three phase 3.4 N.M for LXM32.D18N4 at 6 A, 480 V, three phase
Peak stall torque	10.2 N.M for LXM32.D18N4 at 6 A, 400 V, three phase 10.2 N.M for LXM32.D18N4 at 6 A, 480 V, three phase
Nominal output power	1300 W for LXM32.D18N4 at 6 A, 400 V, three phase 1300 W for LXM32.D18N4 at 6 A, 480 V, three phase
Nominal torque	2.4 N.M for LXM32.D18N4 at 6 A, 400 V, three phase 2.4 N.M for LXM32.D18N4 at 6 A, 480 V, three phase
Nominal speed	5000 rpm for LXM32.D18N4 at 6 A, 400 V, three phase 5000 rpm for LXM32.D18N4 at 6 A, 480 V, three phase
Product compatibility	LXM32.D18N4 at 400...480 V three phase
Shaft end	Smooth shaft
IP degree of protection	IP54 standard
Speed feedback resolution	131072 points/turn
Holding brake	With
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	3.91 A
Continuous power	1.68 W
Maximum current Irms	12.57 A for LXM32.D18N4
Maximum permanent current	12.57 A
Second shaft	Without second shaft end
Shaft diameter	14 Mm
Shaft length	30 Mm
Feedback type	Single turn SinCos Hiperface
Holding torque	3 N.M holding brake
Motor flange size	70 Mm
Number of motor stacks	3
Torque constant	0.87 N.M/A at 120 °C

Back emf constant	55.8 V/Krpm at 120 °C
Number of motor poles	5.0
Rotor inertia	1.78 Kg.Cm²
Stator resistance	2.65 Ohm at 20 °C
Stator inductance	4.175 MH at 20 °C
Stator electrical time constant	3.2 Ms at 20 °C
Maximum radial force Fr	730 N at 1000 rpm 580 N at 2000 rpm 510 N at 3000 rpm 460 N at 4000 rpm 430 N at 5000 rpm 400 N at 6000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	7 W
Type of cooling	Natural convection
Length	225 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	4 Kg
Sizing reference	BMH0703P
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	12.57 A
Inertia	0.11 Kg.Cm² of brake 1.674 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	3.2 Kg
Unit Type of Package 2	S06
Number of Units in Package 2	24
Package 2 Height	73.5 Cm
Package 2 Width	60 Cm
Package 2 Length	80 Cm
Package 2 Weight	81.3 Kg

Offer Sustainability

Total lifecycle Carbon footprint	1 432 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	23.120350365
Carbon footprint of the manufacturing phase [A1 to A3]	23 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.412870073
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0245264818
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1407.7615580017
Carbon footprint of the use phase [B2, B3, B4, B6]	1 408 kg CO2 eq.
Mercury free	Yes

Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.2607836496
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Total lifecycle Carbon footprint	1432
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, w
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