Product data sheet
Characteristics

BMH1002P16A2A
servo motor BMH, Lexium 32, 6.2Nm, 6000rpm, keyed shaft, without brake, IP54, 16bit encoder



Main

Device short name	BMH
Product or component type	Servo motor
Maximum mechanical speed	6000 Rpm
Continuous stall torque	6.2 N.M for LXM32.D18N4 at 6 A, 400 V, three phase 6.2 N.M for LXM32.D18N4 at 6 A, 480 V, three phase
Peak stall torque	18.4 N.M for LXM32.D18N4 at 6 A, 400 V, three phase 18.4 N.M for LXM32.D18N4 at 6 A, 480 V, three phase
Nominal output power	1600 W for LXM32.D18N4 at 6 A, 400 V, three phase 1600 W for LXM32.D18N4 at 6 A, 480 V, three phase
Nominal torque	3.9 N.M for LXM32.D18N4 at 6 A, 400 V, three phase 3.9 N.M for LXM32.D18N4 at 6 A, 480 V, three phase
Nominal speed	4000 rpm for LXM32.D18N4 at 6 A, 400 V, three phase 4000 rpm for LXM32.D18N4 at 6 A, 480 V, three phase
Product compatibility	LXM32.D18N4 at 400...480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 standard
Speed feedback resolution	32768 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	5.04 A
Continuous power	2.36 W
Maximum current Irms	17.5 A for LXM32.D18N4
Maximum permanent current	18.23 A
Second shaft	Without second shaft end
Shaft diameter	19 Mm
Shaft length	40 Mm
Key width	30 Mm
Feedback type	Single turn SinCos Hiperface
Motor flange size	100 Mm
Number of motor stacks	2
Torque constant	1.19 N.M/A at 120 °C

Back emf constant	77 V/Krpm at 120 °C
Number of motor poles	5.0
Rotor inertia	6.28 Kg.Cm²
Stator resistance	1.51 Ohm at 20 °C
Stator inductance	4.12 MH at 20 °C
Stator electrical time constant	5 Ms at 20 °C
Maximum radial force Fr	990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm 580 N at 5000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	160.6 Mm
Centring collar diameter	95 Mm
Centring collar depth	3.5 Mm
Number of mounting holes	4
Mounting holes diameter	9 Mm
Circle diameter of the mounting holes	115 Mm
Net weight	4.92 Kg
Sizing reference	BMH1002P
Network number of phases	3
Accuracy error [angular]	4.8 °
Temperature copper hot	135 °C
Temperature magnet hot	100 °C
Temperature magnet rt	20 °C
Output current 3s peak	17.5 A
Inertia	0.0 Kg.Cm² of brake 6.279 Kg.Cm² of motor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	22.000 Cm
Package 1 Width	19.500 Cm
Package 1 Length	40.000 Cm
Package 1 Weight	6.024 Kg
Unit Type of Package 2	S06
Number of Units in Package 2	10
Package 2 Height	73.5 Cm
Package 2 Width	60 Cm
Package 2 Length	80 Cm
Package 2 Weight	64.7 Kg

Offer Sustainability

Total lifecycle Carbon footprint	1 775 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	43.8130639416
Carbon footprint of the manufacturing phase [A1 to A3]	44 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.7823887883
Carbon footprint of the distribution phase [A4]	0.8 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0464776829
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1729.6582557155
Carbon footprint of the use phase [B2, B3, B4, B6]	1 730 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.4941850161

Carbon footprint of the end-of-life phase [C1 to C4]	0.5 kg CO2 eq.
Total lifecycle Carbon footprint	1775
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