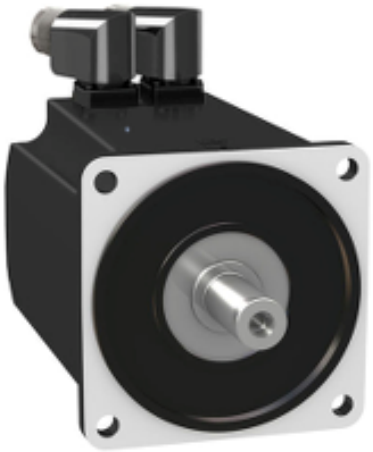
Product data sheet
Characteristics

BMH1403P16A2A
servo motor BMH, Lexium 32, 24Nm, 4000rpm, keyed shaft, without brake, IP54, 16bit encoder, 3 phases



Main

Device short name	BMH
Product or component type	Servo motor
Maximum mechanical speed	4000 Rpm
Continuous stall torque	24 N.M for LXM32.D72N4 at 24 A, 400 V, three phase 24 N.M for LXM32.D72N4 at 24 A, 480 V, three phase
Peak stall torque	71.8 N.M for LXM32.D72N4 at 24 A, 400 V, three phase 71.8 N.M for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal output power	4700 W for LXM32.D72N4 at 24 A, 400 V, three phase 4700 W for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal torque	13.92 N.M for LXM32.D72N4 at 24 A, 400 V, three phase 13.92 N.M for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal speed	3000 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 3000 rpm for LXM32.D72N4 at 24 A, 480 V, three phase
Product compatibility	LXM32.D72N4 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	18 A
Continuous power	4.8 W
Maximum current Irms	57.66 A for LXM32.D72N4
Maximum permanent current	62.3 A
Second shaft	Without second shaft end
Shaft diameter	24 Mm
Shaft length	50 Mm
Key width	40 Mm
Feedback type	Single turn SinCos Hiperface
Motor flange size	140 Mm
Number of motor stacks	3
Torque constant	1.3 N.M/A at 120 °C

Back emf constant	85.9 V/Krpm at 120 °C
Number of motor poles	5.0
Rotor inertia	47.5 Kg.Cm²
Stator resistance	0.22 Ohm at 20 °C
Stator inductance	2.165 MH at 20 °C
Stator electrical time constant	13.6 Ms at 20 °C
Maximum radial force Fr	2420 N at 1000 rpm 1920 N at 2000 rpm 1680 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	232 Mm
Centring collar diameter	130 Mm
Centring collar depth	3.5 Mm
Number of mounting holes	4
Mounting holes diameter	11 Mm
Circle diameter of the mounting holes	165 Mm
Net weight	16 Kg
Sizing reference	BMH1403P
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	57.66 A
Inertia	0.0 Kg.Cm² of brake 47.543 Kg.Cm² of motor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	20.500 Cm
Package 1 Width	27.000 Cm
Package 1 Length	60.000 Cm
Package 1 Weight	17.576 Kg
Unit Type of Package 2	P06
Number of Units in Package 2	12
Package 2 Height	105.000 Cm
Package 2 Width	60.000 Cm
Package 2 Length	80.000 Cm
Package 2 Weight	220.000 Kg

Offer Sustainability

Total lifecycle Carbon footprint	5 187 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	126.9885243796
Carbon footprint of the manufacturing phase [A1 to A3]	127 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2.2676888759
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.134711701
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	5055.9241320915
Carbon footprint of the use phase [B2, B3, B4, B6]	5 056 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	1.4323541956
Carbon footprint of the end-of-life phase [C1 to C4]	1 kg CO2 eq.

Total lifecycle Carbon footprint	5187
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
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