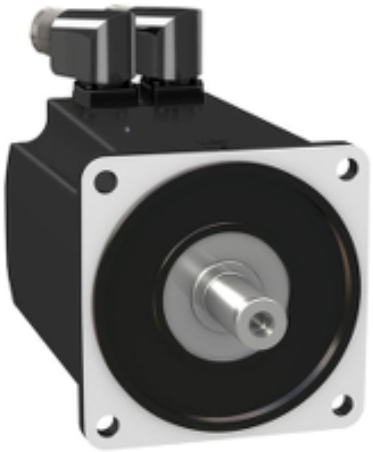
Product data sheet
Characteristics

BMH1402P12F2A
servo motor BMH, Lexium 32, 18.5Nm, 4000rpm, keyed shaft, with brake, IP54, 128 multiturn encoder



Main

Device short name	BMH
Product or component type	Servo motor
Maximum mechanical speed	4000 Rpm
Continuous stall torque	18.5 N.M for LXM32.D72N4 at 24 A, 400 V, three phase 18.5 N.M for LXM32.D72N4 at 24 A, 480 V, three phase
Peak stall torque	50.3 N.M for LXM32.D72N4 at 24 A, 400 V, three phase 50.3 N.M for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal output power	3500 W for LXM32.D72N4 at 24 A, 400 V, three phase 3500 W for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal torque	12.2 N.M for LXM32.D72N4 at 24 A, 400 V, three phase 12.2 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	131072 points/turn x 4096 turns
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	16.83 A
Continuous power	4.44 W
Maximum current Irms	46.22 A for LXM32.D72N4
Maximum permanent current	57.4 A
Second shaft	Without second shaft end
Shaft diameter	24 Mm
Shaft length	50 Mm
Key width	40 Mm
Feedback type	Multiturn SinCos Hiperface
Holding torque	18 N.M holding brake
Motor flange size	140 Mm
Number of motor stacks	2

Torque constant	1.24 N.M/A at 120 °C
Back emf constant	70.7 V/Krpm at 120 °C
Number of motor poles	5.0
Rotor inertia	33.5 Kg.Cm²
Stator resistance	0.23 Ohm at 20 °C
Stator inductance	2.6 MH at 20 °C
Stator electrical time constant	13 Ms at 20 °C
Maximum radial force Fr	2240 N at 1000 rpm 1780 N at 2000 rpm 1550 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	227 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	14.3 Kg
Sizing reference	BMH1402P
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	46.22 A
Inertia	1.5 Kg.Cm² of brake 32.003 Kg.Cm² of motor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.0 Cm
Package 1 Width	20.0 Cm
Package 1 Length	60.0 Cm
Package 1 Weight	14.6 Kg

Offer Sustainability

Total lifecycle Carbon footprint	3 877 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	105.4865985401
Carbon footprint of the manufacturing phase [A1 to A3]	105 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1.883719708
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.111902073
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	3768.3373412362
Carbon footprint of the use phase [B2, B3, B4, B6]	3 768 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	1.1898254015
Carbon footprint of the end-of-life phase [C1 to C4]	1 kg CO2 eq.
Total lifecycle Carbon footprint	3877
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