Product data sheet
Characteristics

BMH2051P01A1A
servo motor BMH, Lexium 32, 34.4Nm, 3800rpm, untapped shaft, without brake, IP54, 128bit encoder, straight



⚠ End of Commercialisation

Commercial status
End of Commercialisation : JUN 30, 2023

Main

Device short name	BMH
Product or component type	Servo motor
Maximum mechanical speed	3800 Rpm
Continuous stall torque	34.4 N.M for LXM32.D72N4 at 24 A, 400 V, three phase 34.4 N.M for LXM32.D72N4 at 24 A, 480 V, three phase
Peak stall torque	103.4 N.M for LXM32.D72N4 at 24 A, 400 V, three phase 103.4 N.M for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal output power	5400 W for LXM32.D72N4 at 24 A, 400 V, three phase 5400 W for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal torque	25.8 N.M for LXM32.D72N4 at 24 A, 400 V, three phase 25.8 N.M for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal speed	2000 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 2000 rpm for LXM32.D72N4 at 24 A, 480 V, three phase
Product compatibility	LXM32.D72N4 at 400...480 V three phase
Shaft end	Smooth shaft
IP degree of protection	IP54 standard
Speed feedback resolution	131072 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	21.5 A
Continuous power	6.8 W
Maximum current Irms	72 A for LXM32.D72N4
Maximum permanent current	78.1 A
Second shaft	Without second shaft end
Shaft diameter	38 Mm
Shaft length	80 Mm
Feedback type	Single turn SinCos Hiperface
Motor flange size	205 Mm
Number of motor stacks	1
Back emf constant	104 V/Krpm at 120 °C

Number of motor poles	10
Rotor inertia	71.4 Kg.Cm²
Stator resistance	0.3 Ohm at 20 °C
Stator inductance	5.9 MH at 20 °C
Stator electrical time constant	19.7 Ms at 20 °C
Maximum radial force Fr	3730 N at 1000 rpm 2960 N at 2000 rpm 2580 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	321 Mm
Centring collar diameter	180 Mm
Centring collar depth	4 Mm
Number of mounting holes	4
Mounting holes diameter	14 Mm
Circle diameter of the mounting holes	215 Mm
Net weight	33 Kg
Sizing reference	BMH2051P
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	40.0 Cm
Package 1 Width	30.0 Cm
Package 1 Length	79.5 Cm
Package 1 Weight	38.4 Kg

Offer Sustainability

Mercury free	Yes
Sustainable packaging	No
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which
PVC free	Yes
End of life manual availability	No need of specific recycling operations
WEEE Label	The product must be disposed on European Union markets following specific waste collection and

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commerc. - Block