Product data sheet
Characteristics

BMH0702T07F2A
servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, untapped shaft, with brake, IP54, 16 multiturn encoder



Main

Device short name	BMH
Product or component type	Servo motor
Maximum mechanical speed	8000 Rpm
Continuous stall torque	2.5 N.M for LXM32.D30M2 at 10 A, 115 V, single phase 2.5 N.M for LXM32.D18M2 at 6 A, 230 V, single phase
Peak stall torque	6.4 N.M for LXM32.D30M2 at 10 A, 115 V, single phase 7.4 N.M for LXM32.D18M2 at 6 A, 230 V, single phase
Nominal output power	600 W for LXM32.D30M2 at 10 A, 115 V, single phase 900 W for LXM32.D18M2 at 6 A, 230 V, single phase
Nominal torque	2.3 N.M for LXM32.D30M2 at 10 A, 115 V, single phase 2.1 N.M for LXM32.D18M2 at 6 A, 230 V, single phase
Nominal speed	2500 rpm for LXM32.D30M2 at 10 A, 115 V, single phase 4000 rpm for LXM32.D18M2 at 6 A, 230 V, single phase
Product compatibility	LXM32.D30M2 at 115 V single phase LXM32.D18M2 at 230 V single phase
Shaft end	Smooth shaft
IP degree of protection	IP54 standard
Speed feedback resolution	32768 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	240 V
Network number of phases	Three phase
Continuous stall current	5.38 A
Continuous power	1.51 W
Maximum current Irms	17.64 A for LXM32.D30M2 17.5 A for LXM32.D18M2
Maximum permanent current	17.71 A
Second shaft	Without second shaft end
Shaft diameter	11 Mm
Shaft length	23 Mm
Feedback type	Multiturn SinCos Hiperface
Holding torque	3 N.M holding brake
Motor flange size	70 Mm
Number of motor stacks	2

Torque constant	0.46 N.M/A at 120 °C
Back emf constant	29.6 V/Krpm at 120 °C
Number of motor poles	5.0
Rotor inertia	1.24 Kg.Cm²
Stator resistance	1.15 Ohm at 20 °C
Stator inductance	1.76 MH at 20 °C
Stator electrical time constant	3.1 Ms at 20 °C
Maximum radial force Fr	710 N at 1000 rpm 560 N at 2000 rpm 490 N at 3000 rpm 450 N at 4000 rpm 410 N at 5000 rpm 390 N at 6000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	7 W
Type of cooling	Natural convection
Length	193 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	3.3 Kg
Sizing reference	BMH0702T
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	17.64 A
Inertia	0.11 Kg.Cm² of brake 1.129 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	2.8 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	71.7 Kg

Offer Sustainability

Total lifecycle Carbon footprint	999 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	20.2303065693
Carbon footprint of the manufacturing phase [A1 to A3]	20 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.3612613139
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0214606715
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	978.56596105
Carbon footprint of the use phase [B2, B3, B4, B6]	979 kg CO2 eq.

Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.2281856934
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.
Total lifecycle Carbon footprint	999
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