

Product datasheet

Specifications



servo motor BMH, Lexium 32,
8.2Nm, 6000rpm, untapped shaft,
with brake, IP65, IP67, 16
multiturn encoder

BMH1003T27F2A

Main

Device short name	BMH
Product or component type	Servo motor
Maximum mechanical speed	6000 rpm
Continuous stall torque	8.2 N.m for LXM32.D30M2 at 10 A, 230 V, single phase
Peak stall torque	22.8 N.m for LXM32.D30M2 at 10 A, 230 V, single phase
Nominal output power	1450 W for LXM32.D30M2 at 10 A, 230 V, single phase
Nominal torque	5.6 N.m for LXM32.D30M2 at 10 A, 230 V, single phase
Nominal speed	2500 rpm for LXM32.D30M2 at 10 A, 230 V, single phase
Product compatibility	LXM32.D30M2 at 230 V single phase
Shaft end	Smooth shaft
IP degree of protection	IP65 standard IP67 with IP67 kit
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	10 A
Continuous power	2.62 W
Maximum current Irms	30 A for LXM32.D30M2
Maximum permanent current	33.85 A
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
Feedback type	Multiturn SinCos Hiperface
Holding torque	9 N.m holding brake
Motor flange size	100 mm
Number of motor stacks	3

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Torque constant	0.851 N.m/A at 120 °C
Back emf constant	54.8 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	10.3 kg.cm²
Stator resistance	0.47 Ohm at 20 °C
Stator inductance	3 mH at 20 °C
Stator electrical time constant	6.4 ms at 20 °C
Maximum radial force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm 660 N at 4000 rpm 610 N at 5000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	234.3 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	8.15 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	22.0 cm
Package 1 Width	20.0 cm
Package 1 Length	40.0 cm
Package 1 Weight	8.45 kg

Contractual warranty

Warranty	18 months
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Sustainability

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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Transparency RoHS/REACH

Well-being performance

 Mercury Free	
 Rohs Exemption Information	Yes
 Pvc Free	

Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations