

# Product data sheet

## Characteristics

### BMH1003T36F2A

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



#### Main

Device short name	BMH
Product or Component Type	Servo motor
Maximum mechanical speed	6000 rpm
Continuous stall torque	72.6 lbf.in (8.2 N.m) LXM32.D30M2 10 A, 230 V, single phase
Peak stall torque	201.8 lbf.in (22.8 N.m) LXM32.D30M2 10 A, 230 V, single phase
Nominal output power	1450 W LXM32.D30M2 10 A, 230 V, single phase
Nominal torque	49.6 lbf.in (5.6 N.m) LXM32.D30M2 10 A, 230 V, single phase
Nominal speed	2500 rpm LXM32.D30M2 10 A, 230 V, single phase
Product compatibility	LXM32.D30M2 230 V single phase
Shaft end	Keyed
IP Degree of Protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	32768 points/turn
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
Phase	Three phase
Continuous stall current	10 A
Continuous power	2.62 W
Maximum current $I_{rms}$	30 A LXM32.D30M2
Maximum permanent current	33.85 A
Second shaft	Without second shaft end
Shaft diameter	0.7 in (19 mm)
Shaft length	1.6 in (40 mm)
Key width	1.2 in (30 mm)
Feedback type	Single turn SinCos Hiperface
Holding torque	79.7 lbf.in (9 N.m) holding brake
Motor flange size	3.9 in (100 mm)
Number of motor stacks	3
Torque constant	0.851 N.m/A 248.0000000000 °F (120 °C)
Back emf constant	54.8 V/krpm 248.0000000000 °F (120 °C)
Number of motor poles	10
Rotor inertia	10.3 kg.cm²
Stator resistance	0.47 Ohm 68.0000000000 °F (20 °C)
Stator inductance	3 mH 68.0000000000 °F (20 °C)
Stator electrical time constant	6.4 ms 68.0000000000 °F (20 °C)

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Maximum radial force Fr	1050 N 1000 rpm 830 N 2000 rpm 730 N 3000 rpm 660 N 4000 rpm 610 N 5000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	9.2 in (234.3 mm)
Centring collar diameter	3.7 in (95 mm)
Centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (9 mm)
Circle diameter of the mounting holes	4.5 in (115 mm)
Net Weight	17.97 lb(US) (8.15 kg)

### Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485198071
Returnability	No
Country of origin	DE

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.7 in (22.0 cm)
Package 1 Width	7.9 in (20.0 cm)
Package 1 Length	15.7 in (40.0 cm)
Package 1 Weight	18.63 lb(US) (8.45 kg)

### Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

### Contractual warranty

Warranty	18 months
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