Product data sheet

Specifications



servo motor BMH, Lexium 32, 8.2Nm, 6000rpm, keyed shaft, with brake, IP54, 16 multiturn encoder

BMH1003T17F2A

Product availability: Non-Stock - Not normally stocked in distribution facility

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	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
Phase	Three phase
Continuous stall current	10 A
Continuous power	2.62 W
Maximum current Irms	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	Multiturn SinCos Hiperface
Holding torque	79.7 lbf.in (9 N.m) holding brake
Motor flange size	3.9 in (100 mm)

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Number of motor stacks	3
Torque constant	0.851 N.m/A 248 °F (120 °C)
Back emf constant	54.8 V/krpm 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	10.3 kg.cm²
Stator resistance	0.47 Ohm 68 °F (20 °C)
Stator inductance	3 mH 68 °F (20 °C)
Stator electrical time constant	6.4 ms 68 °F (20 °C)
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	3606485198217
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.87 in (20.000 cm)
Package 1 Width	8.66 in (22.000 cm)
Package 1 Length	15.75 in (40.000 cm)
Package 1 Weight	17.968 lb(US) (8.150 kg)
Unit Type of Package 2	P12
Number of Units in Package 2	10
Package 2 Height	35.43 in (90.000 cm)
Package 2 Width	31.50 in (80.000 cm)
Package 2 Length	47.24 in (120.000 cm)

Package 2 Weight	206.132 lb(US) (93.500 kg)

Contractual warranty

Warranty	18 months

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	1632
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	A7df881f-135f-4256-b8c2-ea55d4c9a151
China RoHS Regulation	China RoHS declaration
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 www.P65Warnings.ca.gov
PVC free	Yes

Use Again

Repack and remanufacture

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.
Take-back	No