

Product data sheet

Characteristics

BMH0703T16F1A

servo motor BMH - 3.4 Nm - 8000 rpm - keyed shaft - with brake - IP54



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

Price*: 1105.00 USD



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	8000 rpm
Continuous stall torque	30.09 lbf.in (3.4 N.m) for LXM32.D30M2 10 A at 115 V single phase 30.09 lbf.in (3.4 N.m) for LXM32.D18M2 6 A at 230 V single phase
Peak stall torque	76.99 lbf.in (8.7 N.m) for LXM32.D30M2 10 A at 115 V single phase 90.27 lbf.in (10.2 N.m) for LXM32.D18M2 6 A at 230 V single phase
Nominal output power	900 W for LXM32.D18M2 6 A at 230 V single phase 650 W for LXM32.D30M2 10 A at 115 V single phase
Nominal torque	27.43 lbf.in (3.1 N.m) for LXM32.D30M2 10 A at 115 V single phase 25.66 lbf.in (2.9 N.m) for LXM32.D18M2 6 A at 230 V single phase
Nominal speed	2000 rpm for LXM32.D30M2 10 A at 115 V single phase 3000 rpm for LXM32.D18M2 6 A at 230 V single phase
Product compatibility	LXM32.D30M2 at 115 V single phase LXM32.D18M2 at 230 V single phase
Shaft end	Keyed
IP degree of protection	IP54 (standard)
Speed feedback resolution	32768 points/turn
Holding brake	With
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary


Range compatibility	Lexium 32
[Us] rated supply voltage	240 V
Phase	Three phase
Continuous stall current	5.55 A
Continuous power	1.68 W
Maximum current Irms	15 A LXM32.D30M2 17.8 A for LXM32.D18M2
Maximum permanent current	17.84 A

Second shaft	Without second shaft end
Shaft diameter	0.55 in (14 mm)
Shaft length	1.18 in (30 mm)
Key width	0.79 in (20 mm)
Feedback type	Single turn SinCos Hiperface
Holding torque	26.55 lbf.in (3 N.m) (holding brake)
Motor flange size	2.76 in (70 mm)
Number of motor stacks	3
Torque constant	0.61 N.m/A at 248 °F (120 °C)
Back emf constant	39.3 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	1.78 kg.cm ²
Stator resistance	1.32 Ohm at 68 °F (20 °C)
Stator inductance	4.3 mH at 68 °F (20 °C)
Stator electrical time constant	3.3 ms at 68 °F (20 °C)
Maximum radial force Fr	400 N at 6000 rpm 430 N at 5000 rpm 460 N at 4000 rpm 510 N at 3000 rpm 580 N at 2000 rpm 730 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	7 W
Type of cooling	Natural convection
Length	8.86 in (225 mm)
Centring collar diameter	2.36 in (60 mm)
Centring collar depth	0.1 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.22 in (5.5 mm)
Circle diameter of the mounting holes	3.23 in (82 mm)
Product weight	8.82 lb(US) (4 kg)
Sizing reference	BMH0703T
Network number of phases	3
Accuracy error [angular]	4.8 °
Coefficient 1_1	-0.0001750000000006 N.m/rpm
Coefficient 1_2	0.00000000000000011550721732 N.m/rpm ²
Coefficient 1_3	-0.00000000000000000006762416 N.m/rpm ³
Coefficient 1_4	0.000000000000000000001737 N.m/rpm ⁴
Coefficient 1_5	0.00000000000000000000000000000000 N.m/rpm ⁵
Coefficient 1_6	0.00000000000000000000000000000000 N.m/rpm ⁶
Saturation coefficient 1	-0.000000000000000153406885169
Saturation coefficient 2	-0.0052093973442288
Saturation coefficient 3	0.00000000000000000008051345425
Coefficient 2_1	0.000021250000000002 N.m/rpm
Temperature copper hot	275 °F (135 °C)
Temperature magnet hot	212 °F (100 °C)
Temperature magnet rt	68 °F (20 °C)
Motor voltage drop coefficient	1

Ordering and shipping details

Category	18282 - LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	00785901861768
Nbr. of units in pkg.	1
Package weight(Lbs)	8.8000000000000007
Returnability	N
Country of origin	DE

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0936 - Schneider Electric declaration of conformity  Schneider-Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations
California proposition 65	WARNING: This product can expose you to chemicals including:
----- Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
----- More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months
-----------------	-----------

Product Life Status : **Commercialised**