

Product data sheet

Characteristics

BMH0701T26A2A

servo motor BMH - 1.4 Nm - 8000 rpm - untapped shaft - without brake - IP65/IP67



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

Price*: 835.00 USD



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	8000 rpm
Continuous stall torque	12.39 lbf.in (1.4 N.m) for LXM32.D18M2 6 A at 115 V single phase 12.39 lbf.in (1.4 N.m) for LXM32.U90M2 3 A at 230 V single phase
Peak stall torque	37.17 lbf.in (4.2 N.m) for LXM32.D18M2 6 A at 115 V single phase 35.4 lbf.in (4 N.m) for LXM32.U90M2 3 A at 230 V single phase
Nominal output power	450 W LXM32.U90M2 3 A at 230 V single phase 350 W for LXM32.D18M2 6 A at 115 V single phase
Nominal torque	11.95 lbf.in (1.35 N.m) for LXM32.D18M2 6 A at 115 V single phase 9.73 lbf.in (1.1 N.m) for LXM32.U90M2 3 A at 230 V single phase
Nominal speed	2500 rpm for LXM32.D18M2 6 A at 115 V single phase 4000 rpm for LXM32.U90M2 3 A at 230 V single phase
Product compatibility	LXM32.U90M2 at 230 V single phase LXM32.D18M2 at 115 V single phase
Shaft end	Smooth shaft
IP degree of protection	IP65 (standard) IP67 (with IP67 kit)
Speed feedback resolution	32768 points/turn
Holding brake	Without
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	2.85 A
Continuous power	1.05 W
Maximum current Irms	9.6 A for LXM32.D18M2 9.6 A for LXM32.U90M2


Maximum permanent current	9.56 A
Second shaft	Without second shaft end
Shaft diameter	0.43 in (11 mm)
Shaft length	0.91 in (23 mm)
Feedback type	Single turn SinCos Hiperface
Motor flange size	2.76 in (70 mm)
Number of motor stacks	1
Torque constant	0.49 N.m/A at 248 °F (120 °C)
Back emf constant	31.17 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	0.59 kg.cm ²
Stator resistance	3.2 Ohm at 68 °F (20 °C)
Stator inductance	9.1 mH at 68 °F (20 °C)
Stator electrical time constant	2.8 ms at 68 °F (20 °C)
Maximum radial force Fr	360 N at 6000 rpm 380 N at 5000 rpm 410 N at 4000 rpm 460 N at 3000 rpm 520 N at 2000 rpm 660 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	4.8 in (122 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	3.53 lb(US) (1.6 kg)
Sizing reference	BMH0701T
Network number of phases	3
Accuracy error [angular]	4.8 °
Coefficient 1_1	-0.0000187500000003 N.m/rpm
Coefficient 1_2	0.0000000000000000562440546 N.m/rpm ²
Coefficient 1_3	-0.000000000000000002965143 N.m/rpm ³
Coefficient 1_4	0.0000000000000000000711 N.m/rpm ⁴
Coefficient 1_5	0.0000000000000000000000 N.m/rpm ⁵
Coefficient 1_6	0.0000000000000000000000 N.m/rpm ⁶
Saturation coefficient 1	-0.000000000000000038243890773
Saturation coefficient 2	-0.0078140960163432
Saturation coefficient 3	0.00000000000000000158151428
Coefficient 2_1	0.0000087500000000026 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	003606485194240
Nbr. of units in pkg.	1
Package weight(Lbs)	4.299999999999998

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
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Product Life Status :	Commercialised
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