Product data sheet
Characteristics

BMH2053P16A1A
servo motor BMH - 84 Nm - 3800 rpm - keyed shaft - without brake - IP54

Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	3800 rpm
Continuous stall torque	743.46 Lbf.In (84 N.m) LXM32.D72N4 24 A, 400 V, three phase 743.46 lbf.in (84 N.m) LXM32.D72N4 24 A, 480 V, three phase
Peak stall torque	2053.37 Lbf.In (232 N.m) LXM32.D72N4 24 A, 400 V, three phase 2053.37 lbf.in (232 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal output power	6500 W LXM32.D72N4 24 A, 400 V, three phase 6500 W LXM32.D72N4 24 A, 480 V, three phase
Nominal torque	462.01 Lbf.In (52.2 N.m) LXM32.D72N4 24 A, 400 V, three phase 462.01 lbf.in (52.2 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal speed	1200 rpm LXM32.D72N4 24 A, 400 V, three phase 1200 rpm LXM32.D72N4 24 A, 480 V, three phase
Product compatibility	LXM32.D72N4 400...480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 standard
Speed feedback resolution	32768 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	25.2 A
Continuous power	9.6 W
Maximum current Irms	72 A LXM32.D72N4
Maximum permanent current	107.4 A
Second shaft	Without second shaft end
Shaft diameter	1.50 in (38 mm)
Shaft length	3.15 in (80 mm)
Key width	2.76 in (70 mm)
Feedback type	Single turn SinCos Hiperface
Motor flange size	8.07 in (205 mm)
Number of motor stacks	3
Torque constant	3.5 N.m/A 248 °F (120 °C)
Back emf constant	218 V/krpm 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	190 kg.cm²
Stator resistance	0.32 Ohm 68 °F (20 °C)

Stator inductance	6.9 mH 68 °F (20 °C)
Stator electrical time constant	21.6 ms 68 °F (20 °C)
Maximum radial force Fr	4500 N 1000 rpm 3570 N 2000 rpm 3120 N 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	19.25 in (489 mm)
Centring collar diameter	7.09 in (180 mm)
Centring collar depth	0.16 in (4 mm)
Number of mounting holes	4
Mounting holes diameter	0.55 in (14 mm)
Circle diameter of the mounting holes	8.46 in (215 mm)
Net weight	147.71 lb(US) (67 kg)

Ordering and shipping details

Category	18282 - LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	03606485202259
Nbr. of units in pkg.	1
Package weight(Lbs)	156.2 lb(US) (70.85 kg)
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	14.17 in (36 cm)
Package 1 width	12.20 in (31 cm)
Package 1 Length	28.74 in (73 cm)

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 www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
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.
PVC free	Yes

Contractual warranty

Warranty	18 months