Product data sheet

Specifications



19.5N.m, 1500rpm, keyed shaft, with brake, IP65

AC servo motor BSH, Lexium 05,

BSH1402M31F1A

(!) Discontinued

Main

Mann	
Product Or Component Type	Servo motor
Device Short Name	BSH
Maximum Mechanical Speed	4000 rpm
Continuous Stall Torque	19.5 N.m for LXM15MD40N4, 400 V, three phase 19.5 N.m for LXM15MD40N4, 480 V, three phase 19.2 N.m for LXM05AD34N4, 380480 V, three phase
	19.2 N.m for LXM05BD34N4, 380480 V, three phase 19.2 N.m for LXM05BD34N4, 380480 V, three phase 19.2 N.m for LXM05CD34N4, 380480 V, three phase
Peak Stall Torque	47.5 N.m for LXM15MD40N4, 400 V, three phase
	47.5 N.m for LXM15MD40N4, 480 V, three phase
	47.5 N.m for LXM05AD34N4, 380480 V, three phase
	47.5 N.m for LXM05BD34N4, 380480 V, three phase 47.5 N.m for LXM05CD34N4, 380480 V, three phase
Nominal Output Power	2350 W for LXM05AD34N4, 380480 V, three phase
	2350 W for LXM05BD34N4, 380480 V, three phase
	2350 W for LXM05CD34N4, 380480 V, three phase
	2350 W for LXM15MD40N4, 400 V, three phase
	2350 W for LXM15MD40N4, 480 V, three phase
Nominal Torque	15 N.m for LXM05AD34N4, 380480 V, three phase
	15 N.m for LXM05BD34N4, 380480 V, three phase
	15 N.m for LXM05CD34N4, 380480 V, three phase
	15 N.m for LXM15MD40N4, 400 V, three phase 15 N.m for LXM15MD40N4, 480 V, three phase
	15 N.III OL LAM 15MD40144, 400 V, III ee phase
Nominal Speed	1500 rpm for LXM15MD40N4, 400 V, three phase
	1500 rpm for LXM05AD34N4, 380480 V, three phase
	1500 rpm for LXM05BD34N4, 380480 V, three phase
	1500 rpm for LXM05CD34N4, 380480 V, three phase 1500 rpm for LXM15MD40N4, 480 V, three phase
Product Compatibility	LXM05AD34N4 at 380480 V three phase
r roudet compatibility	LXM05BD34N4 at 380480 V three phase
	LXM05CD34N4 at 380480 V three phase
	LXM15MD40N4 at 400 V three phase
	LXM15MD40N4 at 480 V three phase
Shaft End	Keyed
Ip Degree Of Protection	IP65 standard
	IP67 with IP67 kit
Speed Feedback Resolution	131072 points/turn
Holding Brake	With
Mounting Support	International standard flange
Electrical Connection	Straight connectors

Complementary

Range Compatibility	Lexium 15 Lexium 05
Supply Voltage Max	480 V
Network Number Of Phases	Three phase
Continuous Stall Current	6.7 A
Maximum Continuous Power	5.5 W
Maximum Current Irms	22.4 A for LXM15MD40N4 22.4 A for LXM05AD34N4 22.4 A for LXM05BD34N4 22.4 A for LXM05CD34N4
Maximum Permanent Current	22.4 A
Switching Frequency	4 kHz
Second Shaft	Without second shaft end
Shaft Diameter	24 mm
Shaft Length	50 mm
Key Width	40 mm
Feedback Type	Single turn SinCos Hiperface
Holding Torque	23 N.m holding brake
Motor Flange Size	140 mm
Torque Constant	2.91 N.m/A at 120 °C
Back Emf Constant	199 V/krpm at 120 °C
Number Of Motor Poles	10
Rotor Inertia	13.83 kg.cm²
Rotor Inertia Stator Resistance	13.83 kg.cm ² 2.3 Ohm at 20 °C 2.32 Ohm at 20 °C
	2.3 Ohm at 20 °C
Stator Resistance	2.3 Ohm at 20 °C 2.32 Ohm at 20 °C 28.6 mH at 20 °C
Stator Resistance Stator Inductance	2.3 Ohm at 20 °C 2.32 Ohm at 20 °C 28.6 mH at 20 °C 29.79 mH at 20 °C 12.33 ms at 20 °C
Stator Resistance Stator Inductance Stator Electrical Time Constant	2.3 Ohm at 20 °C 2.32 Ohm at 20 °C 28.6 mH at 20 °C 29.79 mH at 20 °C 12.33 ms at 20 °C 12.85 ms at 20 °C 1680 N at 3000 rpm 1930 N at 2000 rpm
Stator Resistance Stator Inductance Stator Electrical Time Constant Maximum Radial Force Fr	2.3 Ohm at 20 °C 2.32 Ohm at 20 °C 28.6 mH at 20 °C 29.79 mH at 20 °C 12.33 ms at 20 °C 12.85 ms at 20 °C 1680 N at 3000 rpm 1930 N at 2000 rpm 2430 N at 1000 rpm
Stator Resistance Stator Inductance Stator Electrical Time Constant Maximum Radial Force Fr Maximum Axial Force Fa	2.3 Ohm at 20 °C 2.32 Ohm at 20 °C 28.6 mH at 20 °C 29.79 mH at 20 °C 12.33 ms at 20 °C 12.85 ms at 20 °C 1680 N at 3000 rpm 1930 N at 2000 rpm 2430 N at 1000 rpm 0.2 x Fr
Stator Resistance Stator Inductance Stator Electrical Time Constant Maximum Radial Force Fr Maximum Axial Force Fa Brake Pull-In Power	2.3 Ohm at 20 °C 2.32 Ohm at 20 °C 28.6 mH at 20 °C 29.79 mH at 20 °C 12.33 ms at 20 °C 12.85 ms at 20 °C 1680 N at 3000 rpm 1930 N at 2000 rpm 2430 N at 1000 rpm 24 W
Stator Resistance Stator Inductance Stator Electrical Time Constant Maximum Radial Force Fr Maximum Axial Force Fa Brake Pull-In Power Type Of Cooling	2.3 Ohm at 20 °C 2.32 Ohm at 20 °C 28.6 mH at 20 °C 29.79 mH at 20 °C 12.33 ms at 20 °C 12.85 ms at 20 °C 1680 N at 3000 rpm 1930 N at 2000 rpm 2430 N at 1000 rpm 0.2 x Fr 24 W Natural convection
Stator Resistance Stator Inductance Stator Electrical Time Constant Maximum Radial Force Fr Maximum Axial Force Fa Brake Pull-In Power Type Of Cooling Length	2.3 Ohm at 20 °C 2.32 Ohm at 20 °C 28.6 mH at 20 °C 29.79 mH at 20 °C 12.33 ms at 20 °C 12.85 ms at 20 °C 1680 N at 3000 rpm 1930 N at 2000 rpm 2430 N at 1000 rpm 0.2 x Fr 24 W Natural convection 310.5 mm
Stator Resistance Stator Inductance Stator Electrical Time Constant Maximum Radial Force Fr Maximum Axial Force Fa Brake Pull-In Power Type Of Cooling Length Centring Collar Diameter	2.3 Ohm at 20 °C 2.32 Ohm at 20 °C 28.6 mH at 20 °C 29.79 mH at 20 °C 12.33 ms at 20 °C 12.85 ms at 20 °C 1680 N at 3000 rpm 1930 N at 2000 rpm 24 W Natural convection 310.5 mm 130 mm
Stator Resistance Stator Inductance Stator Electrical Time Constant Maximum Radial Force Fr Maximum Axial Force Fa Brake Pull-In Power Type Of Cooling Length Centring Collar Diameter Centring Collar Depth	2.3 Ohm at 20 °C 2.32 Ohm at 20 °C 28.6 mH at 20 °C 29.79 mH at 20 °C 12.33 ms at 20 °C 12.85 ms at 20 °C 1680 N at 3000 rpm 1930 N at 2000 rpm 24 W Natural convection 310.5 mm 130 mm 3.5 mm
Stator Resistance Stator Inductance Stator Electrical Time Constant Maximum Radial Force Fr Maximum Axial Force Fa Brake Pull-In Power Type Of Cooling Length Centring Collar Diameter Centring Collar Depth Number Of Mounting Holes	2.3 Ohm at 20 °C 2.32 Ohm at 20 °C 28.6 mH at 20 °C 29.79 mH at 20 °C 12.33 ms at 20 °C 12.85 ms at 20 °C 1680 N at 3000 rpm 1930 N at 2000 rpm 2430 N at 1000 rpm 0.2 x Fr 24 W Natural convection 310.5 mm 130 mm 3.5 mm 4

Packing Units

Unit Type Of Package 1

Number Of Units In Package 1

Contractual warranty

Warranty

18 months

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