Product data sheet

Specifications



AC servo motor BSH, Lexium 05, 1.3N.m, 4000rpm, untapped shaft, without brake, IP65

BSH0553M21A1A

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Main	
Product Or Component Type	Servo motor
Device Short Name	BSH
Maximum Mechanical Speed	8000 rpm
Continuous Stall Torque	 1.3 N.m for LXM05AD10M2, 200240 V, single phase 1.3 N.m for LXM05BD10M2, 200240 V, single phase 1.3 N.m for LXM05CD10M2, 200240 V, single phase 1.3 N.m for LXM15LU60N4, 400 V, three phase 1.3 N.m for LXM15LU60N4, 480 V, three phase 1.3 N.m for LXM05AD10M3X, 200240 V, three phase 1.3 N.m for LXM05BD10M3X, 200240 V, three phase 1.3 N.m for LXM05D10M3X, 200240 V, three phase 1.3 N.m for LXM05D10M3X, 200240 V, three phase
Peak Stall Torque	3.5 N.m for LXM05AD10M2, 200240 V, single phase 3.5 N.m for LXM05BD10M2, 200240 V, single phase 3.5 N.m for LXM05CD10M2, 200240 V, single phase 3.5 N.m for LXM15LU60N4, 400 V, three phase 3.5 N.m for LXM15LU60N4, 480 V, three phase 3.5 N.m for LXM05AD10M3X, 200240 V, three phase 3.5 N.m for LXM05BD10M3X, 200240 V, three phase 3.5 N.m for LXM05CD10M3X, 200240 V, three phase
Nominal Output Power	190 W for LXM05AD10M2, 200240 V, single phase 190 W for LXM05BD10M2, 200240 V, single phase 190 W for LXM05CD10M2, 200240 V, single phase 190 W for LXM05AD10M3X, 200240 V, three phase 190 W for LXM05BD10M3X, 200240 V, three phase 190 W for LXM05CD10M3X, 200240 V, three phase 460 W for LXM15LU60N4, 400 V, three phase 524 W for LXM15LU60N4, 480 V, three phase
Nominal Torque	1.2 N.m for LXM05AD10M2, 200240 V, single phase 1.2 N.m for LXM05BD10M2, 200240 V, single phase 1.2 N.m for LXM05CD10M2, 200240 V, single phase 1.1 N.m for LXM15LU60N4, 400 V, three phase 1.1 N.m for LXM15LU60N4, 480 V, three phase 1.2 N.m for LXM05AD10M3X, 200240 V, three phase 1.2 N.m for LXM05BD10M3X, 200240 V, three phase 1.2 N.m for LXM05CD10M3X, 200240 V, three phase 1.2 N.m for LXM05CD10M3X, 200240 V, three phase
Nominal Speed	1500 rpm for LXM05AD10M2, 200240 V, single phase 1500 rpm for LXM05BD10M2, 200240 V, single phase 1500 rpm for LXM05CD10M2, 200240 V, single phase 1500 rpm for LXM05AD10M3X, 200240 V, three phase 1500 rpm for LXM05BD10M3X, 200240 V, three phase 1500 rpm for LXM05CD10M3X, 200240 V, three phase 4000 rpm for LXM15LU60N4, 400 V, three phase 5000 rpm for LXM15LU60N4, 480 V, three phase
Product Compatibility	LXM05AD10M2 at 200240 V single phase LXM05BD10M2 at 200240 V single phase LXM05CD10M2 at 200240 V single phase LXM05AD10M3X at 200240 V three phase LXM05BD10M3X at 200240 V three phase LXM05CD10M3X at 200240 V three phase LXM15LU60N4 at 400 V three phase LXM15LU60N4 at 480 V three phase

Shaft End	Untapped
Ip Degree Of Protection	IP65 standard IP67 with IP67 kit
Speed Feedback Resolution	131072 points/turn
Holding Brake	Without
Mounting Support	International standard flange
Electrical Connection	Straight connectors

Complementary

Complementary	
Range Compatibility	
Range Compatibility	Lexium 05
	Lexium 15
Supply Voltage Max	480 V
	¥ 00F
Network Number Of Phases	Three phase
Continuous Stall Current	0.9 A
Maximum Continuous Power	0.97 W
	0.57 W
Maximum Current Irms	3.4 A for LXM05CD10M3X
	3.6 A for LXM15LU60N4
	3.4 A for LXM05AD10M2
	3.4 A for LXM05AD10M3X
	3.4 A for LXM05BD10M2
	3.4 A for LXM05BD10M3X
	3.4 A for LXM05CD10M2
Maximum Permanent Current	3.4 A
Switching Frequency	4 kHz
Second Shaft	Without second shaft end
Shaft Diameter	9 mm
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Shaft Length	20 mm
Feedback Type	Single turn SinCos Hiperface
Motor Flange Size	55 mm
Number Of Motor Stacks	3
Torque Constant	1.18 N.m/A at 120 °C
iorque constant	1.33 N.m/A at 120 °C
	1.00 N.III// At 120 0
Back Emf Constant	78 V/krpm at 120 °C
	79 V/krpm at 120 °C
Number Of Motor Poles	6
Rotor Inertia	0.40 km am ²
	0.19 kg.cm ²
Stator Resistance	32 Ohm at 20 °C
	38.4 Ohm at 20 °C
Stator Inductance	48 mH at 20 °C
	92.2 mH at 20 °C
Stator Electrical Time Constant	1.5 ms at 20 °C
Callor Licotrica Time Constant	
	2.4 ms at 20 °C
Maximum Radial Force Fr	190 N at 8000 rpm
	200 N at 7000 rpm
	210 N at 6000 rpm
	230 N at 5000 rpm
	240 N at 4000 rpm
	270 N at 3000 rpm
	310 N at 2000 rpm
	390 N at 1000 rpm
Maximum Axial Force Fa	0.2 × 5-
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Type Of Cooling	Natural convection
Length	176.5 mm
Centring Collar Diameter	40 mm
Centring Collar Depth	2 mm
Number Of Mounting Holes	4
Mounting Holes Diameter	5.5 mm
Circle Diameter Of The Mounting Holes	63 mm
Net Weight	1.76 kg

Packing Units

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Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty

18 months