Product data sheet

Specifications



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

BSH0553M32A2A

() Discontinued

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 LXM05CD10M3X, 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, 200, 240 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	
Nominal Output I ower	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	
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	Keyed
Ip Degree Of Protection	IP65 standard IP67 with IP67 kit
Speed Feedback Resolution	131072 points/turn x 4096 turns
Holding Brake	Without
Mounting Support	International standard flange
Electrical Connection	Rotatable right-angled connectors

Complementary

Compromontary	
Range Compatibility	Lexium 05
5	Lexium 15
Supply Voltage Max	480 V
Network Number Of Phases	Three phase
Continuous Stall Current	0.9 A
Maximum Continuous Power	0.97 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
Shaft Length	20 mm
Key Width	12 mm
Feedback Type	Multiturn SinCos Hiperface
Motor Flange Size	55 mm
Number Of Motor Stacks	3
Torque Constant	1.18 N.m/A at 120 °C
•	1.33 N.m/A at 120 °C
Back Emf Constant	78 V/krpm at 120 °C
	79 V/krpm at 120 °C
Number Of Motor Poles	6
Rotor Inertia	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
Stator Inductance	92.2 mH at 20 °C
Stator Electrical Time Constant	1.5 ms at 20 °C
	2.4 ms at 20 °C
Maximum Radial Force Fr	190 N at 8000 rpm
	200 N at 7000 rpm
	200 N at 7000 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 x Fr
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

0	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty

18 months