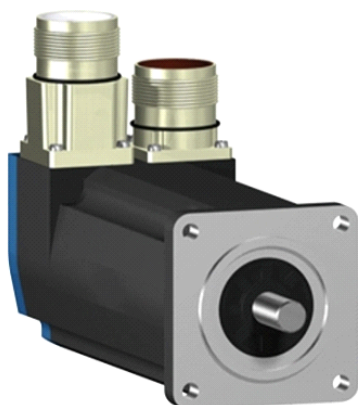




Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	9000 rpm
Continuous stall torque	7.96 lbf.in (0.9 N.m) LXM05CU70M2 at 200...240 V single phase 7.96 lbf.in (0.9 N.m) LXM05AD10M2 at 200...240 V single phase 7.96 lbf.in (0.9 N.m) LXM05BD10M2 at 200...240 V single phase 7.96 lbf.in (0.9 N.m) LXM05CD10M2 at 200...240 V single phase 7.96 lbf.in (0.9 N.m) LXM15LD13M3 at 230 V single phase 7.96 lbf.in (0.9 N.m) LXM05AD10M3X at 200...240 V three phase 7.96 lbf.in (0.9 N.m) LXM05BD10M3X at 200...240 V three phase 7.96 lbf.in (0.9 N.m) LXM05CD10M3X at 200...240 V three phase 7.96 lbf.in (0.9 N.m) LXM15LD13M3 at 230 V three phase 7.96 lbf.in (0.9 N.m) LXM15LU60N4 at 230 V three phase 7.96 lbf.in (0.9 N.m) LXM05AD14N4 at 380...480 V three phase 7.96 lbf.in (0.9 N.m) LXM05BD14N4 at 380...480 V three phase 7.96 lbf.in (0.9 N.m) LXM05CD14N4 at 380...480 V three phase 7.08 lbf.in (0.8 N.m) LXM32.U60N4 1.5 A at 400 V three phase 7.08 lbf.in (0.8 N.m) LXM32.U60N4 1.5 A at 480 V three phase
Peak stall torque	22.12 lbf.in (2.5 N.m) LXM15LD13M3 at 230 V single phase 22.12 lbf.in (2.5 N.m) LXM15LD13M3 at 230 V three phase 20 lbf.in (2.26 N.m) LXM15LU60N4 at 230 V three phase 19.2 lbf.in (2.17 N.m) LXM05CU70M2 at 200...240 V single phase 23.89 lbf.in (2.7 N.m) LXM05AD10M2 at 200...240 V single phase 23.89 lbf.in (2.7 N.m) LXM05BD10M2 at 200...240 V single phase 23.89 lbf.in (2.7 N.m) LXM05CD10M2 at 200...240 V single phase 23.89 lbf.in (2.7 N.m) LXM05AD10M3X at 200...240 V three phase 23.89 lbf.in (2.7 N.m) LXM05AD14N4 at 380...480 V three phase 23.89 lbf.in (2.7 N.m) LXM05BD10M3X at 200...240 V three phase 23.89 lbf.in (2.7 N.m) LXM05BD14N4 at 380...480 V three phase 23.89 lbf.in (2.7 N.m) LXM05CD10M3X at 200...240 V three phase 23.89 lbf.in (2.7 N.m) LXM05CD14N4 at 380...480 V three phase 22.12 lbf.in (2.5 N.m) LXM32.U60N4 1.5 A at 400 V three phase 22.12 lbf.in (2.5 N.m) LXM32.U60N4 1.5 A at 480 V three phase
Nominal output power	250 W LXM05AD10M2 at 200...240 V single phase 250 W LXM05BD10M2 at 200...240 V single phase 250 W LXM05CD10M2 at 200...240 V single phase

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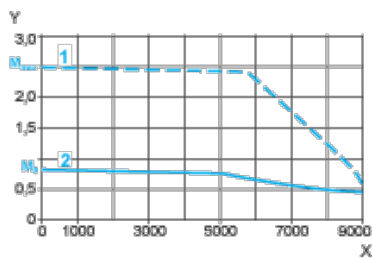
	250 W LXM05CU70M2 at 200...240 V single phase 310 W LXM15LD13M3 at 230 V single phase 250 W LXM05AD10M3X at 200...240 V three phase 250 W LXM05AD14N4 at 380...480 V three phase 250 W LXM05BD10M3X at 200...240 V three phase 250 W LXM05BD14N4 at 380...480 V three phase 250 W LXM05CD10M3X at 200...240 V three phase 250 W LXM05CD14N4 at 380...480 V three phase 310 W LXM15LD13M3 at 230 V three phase 310 W LXM15LU60N4 at 230 V three phase 400 W LXM32.U60N4 1.5 A at 400 V three phase 400 W LXM32.U60N4 1.5 A at 480 V three phase
Nominal torque	6.64 lbf.in (0.75 N.m) LXM15LD13M3 at 230 V single phase 19.2 lbf.in (2.17 N.m) LXM05CU70M2 at 200...240 V single phase 23.89 lbf.in (2.7 N.m) LXM05AD10M2 at 200...240 V single phase 23.89 lbf.in (2.7 N.m) LXM05BD10M2 at 200...240 V single phase 23.89 lbf.in (2.7 N.m) LXM05CD10M2 at 200...240 V single phase 6.64 lbf.in (0.75 N.m) LXM15LD13M3 at 230 V three phase 6.64 lbf.in (0.75 N.m) LXM15LU60N4 at 230 V three phase 23.89 lbf.in (2.7 N.m) LXM05AD10M3X at 200...240 V three phase 23.89 lbf.in (2.7 N.m) LXM05AD14N4 at 380...480 V three phase 23.89 lbf.in (2.7 N.m) LXM05BD10M3X at 200...240 V three phase 23.89 lbf.in (2.7 N.m) LXM05BD14N4 at 380...480 V three phase 23.89 lbf.in (2.7 N.m) LXM05CD10M3X at 200...240 V three phase 23.89 lbf.in (2.7 N.m) LXM05CD14N4 at 380...480 V three phase 5.75 lbf.in (0.65 N.m) LXM32.U60N4 1.5 A at 400 V three phase 5.75 lbf.in (0.65 N.m) LXM32.U60N4 1.5 A at 480 V three phase
Nominal speed	3000 rpm LXM05AD10M2 at 200...240 V single phase 3000 rpm LXM05BD10M2 at 200...240 V single phase 3000 rpm LXM05CD10M2 at 200...240 V single phase 3000 rpm LXM05CU70M2 at 200...240 V single phase 4000 rpm LXM15LD13M3 at 230 V single phase 4000 rpm LXM15LU60N4 at 230 V three phase 3000 rpm LXM05AD10M3X at 200...240 V three phase 3000 rpm LXM05AD14N4 at 380...480 V three phase 3000 rpm LXM05BD10M3X at 200...240 V three phase 3000 rpm LXM05BD14N4 at 380...480 V three phase 3000 rpm LXM05CD10M3X at 200...240 V three phase 3000 rpm LXM05CD14N4 at 380...480 V three phase 4000 rpm LXM15LD13M3 at 230 V three phase 6000 rpm LXM32.U60N4 1.5 A at 480 V three phase 6000 rpm LXM32.U60N4 1.5 A at 400 V three phase
Product compatibility	LXM05AD10M2 at 200...240 V single phase LXM05BD10M2 at 200...240 V single phase LXM05CD10M2 at 200...240 V single phase LXM05CU70M2 at 200...240 V single phase LXM15LD13M3 at 230 V single phase LXM15LU60N4 at 230 V three phase LXM32.U60N4 at 400 V three phase LXM32.U60N4 at 480 V three phase LXM05AD10M3X at 200...240 V three phase

LXM05BD10M3X at 200...240 V three phase
 LXM05CD10M3X at 200...240 V three phase
 LXM15LD13M3 at 230 V three phase
 LXM05AD14N4 at 380...480 V three phase
 LXM05BD14N4 at 380...480 V three phase
 LXM05CD14N4 at 380...480 V three phase

Shaft end	Keyed
IP degree of protection	IP50 (standard)
Speed feedback resolution	131072 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 05 Lexium 15 Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	1.2 A
Continuous power	0.67 W
Maximum current Irms	4.8 A LXM05AD10M2 4.8 A LXM05AD10M3X 4.8 A LXM05AD14N4 4.8 A LXM05BD10M2 4.8 A LXM05BD10M3X 4.8 A LXM05BD14N4 4.8 A LXM05CD10M2 4.8 A LXM05CD10M3X 4.8 A LXM05CD14N4 4.8 A LXM05CU70M2 5.9 A LXM15LD13M3 5.9 A LXM15LU60N4 4.8 A LXM32.U60N4
Maximum permanent current	4.8 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	0.35 in (9 mm)
Shaft length	0.79 in (20 mm)
Key width	0.47 in (12 mm)
Feedback type	Single turn SinCos Hiperface
Motor flange size	2.17 in (55 mm)
Number of motor stacks	2
Torque constant	0.7 N.m/A at 248 °F (120 °C)
Back emf constant	40 V/krpm at 248 °F (120 °C)
Number of motor poles	6
Rotor inertia	0.096 kg.cm ²
Stator resistance	17.4 Ohm at 68 °F (20 °C)
Stator inductance	35.3 mH at 68 °F (20 °C)
Stator electrical time constant	2.03 ms at 68 °F (20 °C)
Maximum radial force Fr	190 N at 7000 rpm 190 N at 8000 rpm 200 N at 6000 rpm 220 N at 5000 rpm 230 N at 4000 rpm 260 N at 3000 rpm 290 N at 2000 rpm 370 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	6.08 in (154.4 mm)
Centring collar diameter	1.57 in (40 mm)
Centring collar depth	0.08 in (2 mm)

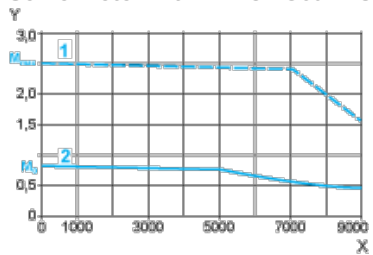


- X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



- X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque