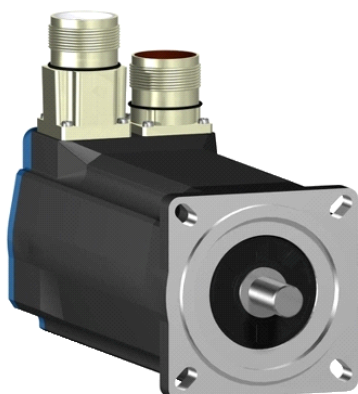




Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	8000 rpm
Continuous stall torque	12.39 lbf.in (1.4 N.m) LXM15LD13M3 at 230 V single phase 12.39 lbf.in (1.4 N.m) LXM05AD10F1 at 110...120 V single phase 12.39 lbf.in (1.4 N.m) LXM05AD17M2 at 200...240 V single phase 12.39 lbf.in (1.4 N.m) LXM05BD10F1 at 110...120 V single phase 12.39 lbf.in (1.4 N.m) LXM05BD17M2 at 200...240 V single phase 12.39 lbf.in (1.4 N.m) LXM05CD10F1 at 110...120 V single phase 12.39 lbf.in (1.4 N.m) LXM05CD17M2 at 200...240 V single phase 12.39 lbf.in (1.4 N.m) LXM05AD10M3X at 200...240 V three phase 12.39 lbf.in (1.4 N.m) LXM05BD10M3X at 200...240 V three phase 12.39 lbf.in (1.4 N.m) LXM05CD10M3X at 200...240 V three phase 6.19 lbf.in (0.7 N.m) LXM15LU60N4 at 400 V three phase 6.19 lbf.in (0.7 N.m) LXM15LU60N4 at 480 V three phase 8.05 lbf.in (0.91 N.m) LXM15LU60N4 at 230 V three phase 12.39 lbf.in (1.4 N.m) LXM15LD10N4 at 230 V three phase 12.39 lbf.in (1.4 N.m) LXM15LD10N4 at 400 V three phase 12.39 lbf.in (1.4 N.m) LXM15LD10N4 at 480 V three phase 12.39 lbf.in (1.4 N.m) LXM15LD13M3 at 230 V three phase 12.39 lbf.in (1.4 N.m) LXM15LD21M3 at 230 V three phase 12.39 lbf.in (1.4 N.m) LXM05AD17M3X at 200...240 V three phase 12.39 lbf.in (1.4 N.m) LXM05BD17M3X at 200...240 V three phase 12.39 lbf.in (1.4 N.m) LXM05CD17M3X at 200...240 V three phase 12.39 lbf.in (1.4 N.m) for LXM32.D18M2 6 A at 115 V single phase 11.5 lbf.in (1.3 N.m) LXM32.U90M2 3 A at 230 V single phase
Peak stall torque	28.23 lbf.in (3.19 N.m) LXM15LD13M3 at 230 V single phase 21.42 lbf.in (2.42 N.m) LXM05AD10F1 at 110...120 V single phase 28.23 lbf.in (3.19 N.m) LXM05AD17M2 at 200...240 V single phase 21.42 lbf.in (2.42 N.m) LXM05BD10F1 at 110...120 V single phase 28.23 lbf.in (3.19 N.m) LXM05BD17M2 at 200...240 V single phase 21.42 lbf.in (2.42 N.m) LXM05CD10F1 at 110...120 V single phase 28.23 lbf.in (3.19 N.m) LXM05CD17M2 at 200...240 V single phase 16.81 lbf.in (1.9 N.m) LXM15LU60N4 at 400 V three phase 16.81 lbf.in (1.9 N.m) LXM15LU60N4 at 480 V three phase

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	three phase 16.81 lbf.in (1.9 N.m) LXM15LU60N4 at 230 V three phase 25.75 lbf.in (2.91 N.m) LXM15LD10N4 at 230 V three phase 25.75 lbf.in (2.91 N.m) LXM15LD10N4 at 400 V three phase 25.75 lbf.in (2.91 N.m) LXM15LD10N4 at 480 V three phase 28.23 lbf.in (3.19 N.m) LXM15LD13M3 at 230 V three phase 28.23 lbf.in (3.19 N.m) LXM15LD21M3 at 230 V three phase 21.42 lbf.in (2.42 N.m) LXM05AD10M3X at 200...240 V three phase 28.23 lbf.in (3.19 N.m) LXM05AD17M3X at 200...240 V three phase 21.42 lbf.in (2.42 N.m) LXM05BD10M3X at 200...240 V three phase 28.23 lbf.in (3.19 N.m) LXM05BD17M3X at 200...240 V three phase 21.42 lbf.in (2.42 N.m) LXM05CD10M3X at 200...240 V three phase 28.23 lbf.in (3.19 N.m) LXM05CD17M3X at 200...240 V three phase 30.97 lbf.in (3.5 N.m) for LXM32.D18M2 6 A at 115 V single phase 30.97 lbf.in (3.5 N.m) LXM32.U90M2 3 A at 230 V single phase
Nominal output power	380 W LXM05AD10F1 at 110...120 V single phase 380 W LXM05BD10F1 at 110...120 V single phase 380 W LXM05CD10F1 at 110...120 V single phase 400 W LXM05AD17M2 at 200...240 V single phase 400 W LXM05BD17M2 at 200...240 V single phase 400 W LXM05CD17M2 at 200...240 V single phase 654 W LXM15LD13M3 at 230 V single phase 400 W LXM05AD10M3X at 200...240 V three phase 400 W LXM05BD10M3X at 200...240 V three phase 400 W LXM05CD10M3X at 200...240 V three phase 1000 W LXM15LD10N4 at 400 V three phase 1000 W LXM15LD10N4 at 480 V three phase 400 W LXM05AD17M3X at 200...240 V three phase 400 W LXM05BD17M3X at 200...240 V three phase 400 W LXM05CD17M3X at 200...240 V three phase 440 W LXM15LU60N4 at 230 V three phase 564 W LXM15LD10N4 at 230 V three phase 586 W LXM15LU60N4 at 400 V three phase 586 W LXM15LU60N4 at 480 V three phase 654 W LXM15LD13M3 at 230 V three phase 654 W LXM15LD21M3 at 230 V three phase 350 W for LXM32.D18M2 6 A at 115 V single phase 500 W LXM32.U90M2 3 A at 230 V single phase
Nominal torque	11.06 lbf.in (1.25 N.m) LXM15LD13M3 at 230 V single phase 6.19 lbf.in (0.7 N.m) LXM15LU60N4 at 230 V three phase 10.88 lbf.in (1.23 N.m) LXM15LD10N4 at 400 V three phase 10.88 lbf.in (1.23 N.m) LXM15LD10N4 at 480 V three phase 11.06 lbf.in (1.25 N.m) LXM15LD10N4 at 230 V three phase 11.06 lbf.in (1.25 N.m) LXM15LD13M3 at 230 V three phase 11.06 lbf.in (1.25 N.m) LXM15LD21M3 at 230 V three phase 6.19 lbf.in (0.7 N.m) LXM15LU60N4 at 400 V three phase 6.19 lbf.in (0.7 N.m) LXM15LU60N4 at 480 V three phase 12.04 lbf.in (1.36 N.m) for LXM32.D18M2 6 A at 115 V single phase 8.32 lbf.in (0.94 N.m) LXM32.U90M2 3 A at 230 V single phase
Nominal speed	3000 rpm LXM05AD10F1 at 110...120 V single phase

3000 rpm LXM05AD17M2 at 200...240 V single phase
 3000 rpm LXM05BD10F1 at 110...120 V single phase
 3000 rpm LXM05BD17M2 at 200...240 V single phase
 3000 rpm LXM05CD10F1 at 110...120 V single phase
 3000 rpm LXM05CD17M2 at 200...240 V single phase
 5000 rpm LXM15LD13M3 at 230 V single phase
 3000 rpm LXM05AD10M3X at 200...240 V three phase
 3000 rpm LXM05BD10M3X at 200...240 V three phase
 3000 rpm LXM05CD10M3X at 200...240 V three phase
 8000 rpm LXM15LD10N4 at 400 V three phase
 3000 rpm LXM05AD17M3X at 200...240 V three phase
 3000 rpm LXM05BD17M3X at 200...240 V three phase
 3000 rpm LXM05CD17M3X at 200...240 V three phase
 5000 rpm LXM15LD10N4 at 230 V three phase
 5000 rpm LXM15LD13M3 at 230 V three phase
 5000 rpm LXM15LD21M3 at 230 V three phase
 6000 rpm LXM15LU60N4 at 230 V three phase
 8000 rpm LXM15LD10N4 at 480 V three phase
 8000 rpm LXM15LU60N4 at 400 V three phase
 8000 rpm LXM15LU60N4 at 480 V three phase
 2500 rpm for LXM32.D18M2 6 A at 115 V single phase
 5000 rpm LXM32.U90M2 3 A at 230 V single phase

Product compatibility	LXM05AD10F1 at 110...120 V single phase LXM05AD17M2 at 200...240 V single phase LXM05BD10F1 at 110...120 V single phase LXM05BD17M2 at 200...240 V single phase LXM05CD10F1 at 110...120 V single phase LXM05CD17M2 at 200...240 V single phase LXM15LD13M3 at 230 V single phase LXM32.U90M2 at 230 V single phase LXM32.D18M2 at 115 V single phase LXM15LU60N4 at 230 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 LXM15LU60N4 at 400 V three phase LXM15LU60N4 at 480 V three phase LXM15LD10N4 at 400 V three phase LXM05AD17M3X at 200...240 V three phase LXM05BD17M3X at 200...240 V three phase LXM05CD17M3X at 200...240 V three phase LXM15LD10N4 at 230 V three phase LXM15LD10N4 at 480 V three phase LXM15LD21M3 at 230 V three phase
Shaft end	Untapped
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	3.2 A
Continuous power	1.06 W

Maximum current Irms	9.9 A LXM15LD10N4 9.9 A LXM15LD13M3 9.9 A LXM15LD21M3 9.9 A LXM15LU60N4 10 A LXM32.D18M2 9 A LXM32.U90M2
Maximum permanent current	10.1 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	0.43 in (11 mm)
Shaft length	0.91 in (23 mm)
Feedback type	Single turn SinCos Hiperface
Motor flange size	2.76 in (70 mm)
Number of motor stacks	1
Torque constant	0.44 N.m/A at 248 °F (120 °C)
Back emf constant	26 V/krpm at 248 °F (120 °C)
Number of motor poles	6
Rotor inertia	0.25 kg.cm²
Stator resistance	3.3 Ohm at 68 °F (20 °C)
Stator inductance	12.3 mH at 68 °F (20 °C)
Stator electrical time constant	3.73 ms at 68 °F (20 °C)
Maximum radial force Fr	360 N at 6000 rpm 380 N at 5000 rpm 410 N at 4000 rpm 460 N at 3000 rpm 520 N at 2000 rpm 660 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	6.06 in (154 mm)
Centring collar diameter	2.36 in (60 mm)
Centring collar depth	0.1 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.22 in (5.5 mm)
Circle diameter of the mounting holes	3.23 in (82 mm)
Product weight	4.85 lb(US) (2.2 kg)

Environment

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0850 - Schneider Electric declaration of conformity	Compliant - since 0850 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Need no specific recycling operations	Need no specific recycling operations
WARNING: This product can expose you to chemicals including:	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.	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	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months
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Servo Motors Dimensions

[illegible]

- Dimensions in mm

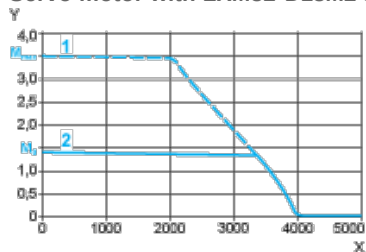
Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
39.5	25.5	39.5	39.5	154	180	23	18	2.5	4 N9	2.5 ^{+0.1} ₀	11 k6	M4 x 10

Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1.00	1.55	1.55	6.06	7.08	0.90	0.70	0.09	0.16 N9	0.01 ^{+0.004} ₀	0.43 k6	M4 x 0.39

Torque/Speed Curves

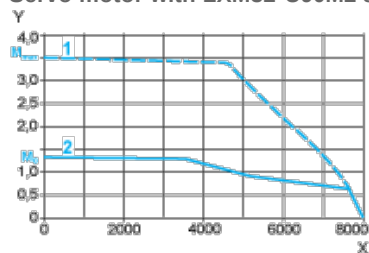
Servo motor with LXM32•D18M2 servo drive



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

Torque/Speed Curves

Servo motor with LXM32•U90M2 servo drive



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