



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	4000 rpm
Continuous stall torque	172.57 lbf.in (19.5 N.m) LXM15MD40N4 at 400 V three phase 172.57 lbf.in (19.5 N.m) LXM15MD40N4 at 480 V three phase 131.86 lbf.in (14.9 N.m) LXM15LD28M3 at 230 V three phase 131.86 lbf.in (14.9 N.m) LXM15MD28N4 at 230 V three phase 131.86 lbf.in (14.9 N.m) LXM15MD28N4 at 400 V three phase 131.86 lbf.in (14.9 N.m) LXM15MD28N4 at 480 V three phase 172.57 lbf.in (19.5 N.m) LXM15MD56N4 at 230 V three phase 172.57 lbf.in (19.5 N.m) LXM15MD56N4 at 400 V three phase 172.57 lbf.in (19.5 N.m) LXM15MD56N4 at 480 V three phase 169.91 lbf.in (19.2 N.m) LXM05AD42M3X at 200...240 V three phase 169.91 lbf.in (19.2 N.m) LXM05AD57N4 at 380...480 V three phase 169.91 lbf.in (19.2 N.m) LXM05BD42M3X at 200...240 V three phase 169.91 lbf.in (19.2 N.m) LXM05BD57N4 at 380...480 V three phase 169.91 lbf.in (19.2 N.m) LXM05CD42M3X at 200...240 V three phase 169.91 lbf.in (19.2 N.m) LXM05CD57N4 at 380...480 V three phase
Peak stall torque	254.07 lbf.in (28.71 N.m) LXM15LD28M3 at 230 V three phase 254.07 lbf.in (28.71 N.m) LXM15MD28N4 at 230 V three phase 254.07 lbf.in (28.71 N.m) LXM15MD28N4 at 400 V three phase 254.07 lbf.in (28.71 N.m) LXM15MD28N4 at 480 V three phase 347.79 lbf.in (39.3 N.m) LXM15MD40N4 at 230 V three phase 347.79 lbf.in (39.3 N.m) LXM15MD40N4 at 400 V three phase 347.79 lbf.in (39.3 N.m) LXM15MD40N4 at 480 V three phase 420.35 lbf.in (47.5 N.m) LXM15MD56N4 at 230 V three phase 420.35 lbf.in (47.5 N.m) LXM15MD56N4 at 400 V three phase 420.35 lbf.in (47.5 N.m) LXM15MD56N4 at 480 V three phase 371.15 lbf.in (41.94 N.m) LXM05AD42M3X at 200...240 V three phase 420.35 lbf.in (47.5 N.m) LXM05AD57N4 at 380...480 V three phase 371.15 lbf.in (41.94 N.m) LXM05BD42M3X at 200...240 V three phase 420.35 lbf.in (47.5 N.m) LXM05BD57N4 at 380...480 V three phase 371.15 lbf.in (41.94 N.m) LXM05CD42M3X at 200...240 V three phase 420.35 lbf.in (47.5 N.m) LXM05CD57N4 at 380...480 V three phase
Nominal output power	2350 W LXM05AD42M3X at 200...240 V three

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	phase 2350 W LXM05BD42M3X at 200...240 V three phase 2350 W LXM05CD42M3X at 200...240 V three phase 2350 W LXM15LD28M3 at 230 V three phase 2350 W LXM15MD28N4 at 230 V three phase 2350 W LXM15MD40N4 at 230 V three phase 2350 W LXM15MD56N4 at 230 V three phase 3350 W LXM15MD28N4 at 480 V three phase 3350 W LXM15MD40N4 at 480 V three phase 3400 W LXM05AD57N4 at 380...480 V three phase 3400 W LXM05BD57N4 at 380...480 V three phase 3400 W LXM05CD57N4 at 380...480 V three phase 3400 W LXM15MD28N4 at 400 V three phase 3400 W LXM15MD40N4 at 400 V three phase 3400 W LXM15MD56N4 at 400 V three phase 3400 W LXM15MD56N4 at 480 V three phase
Nominal torque	70.8 lbf.in (8 N.m) LXM15MD40N4 at 480 V three phase 95.58 lbf.in (10.8 N.m) LXM05AD57N4 at 380...480 V three phase 95.58 lbf.in (10.8 N.m) LXM05BD57N4 at 380...480 V three phase 95.58 lbf.in (10.8 N.m) LXM05CD57N4 at 380...480 V three phase 95.58 lbf.in (10.8 N.m) LXM15MD28N4 at 400 V three phase 95.58 lbf.in (10.8 N.m) LXM15MD40N4 at 400 V three phase 95.58 lbf.in (10.8 N.m) LXM15MD56N4 at 400 V three phase 95.58 lbf.in (10.8 N.m) LXM15MD56N4 at 480 V three phase 132.74 lbf.in (15 N.m) LXM05AD42M3X at 200...240 V three phase 132.74 lbf.in (15 N.m) LXM05BD42M3X at 200...240 V three phase 132.74 lbf.in (15 N.m) LXM05CD42M3X at 200...240 V three phase 132.74 lbf.in (15 N.m) LXM15LD28M3 at 230 V three phase 132.74 lbf.in (15 N.m) LXM15MD28N4 at 230 V three phase 132.74 lbf.in (15 N.m) LXM15MD40N4 at 230 V three phase 132.74 lbf.in (15 N.m) LXM15MD56N4 at 230 V three phase 70.8 lbf.in (8 N.m) LXM15MD28N4 at 480 V three phase
Nominal speed	1500 rpm LXM05AD42M3X at 200...240 V three phase 1500 rpm LXM05BD42M3X at 200...240 V three phase 1500 rpm LXM05CD42M3X at 200...240 V three phase 1500 rpm LXM15MD28N4 at 230 V three phase 1500 rpm LXM15MD40N4 at 230 V three phase 3000 rpm LXM05AD57N4 at 380...480 V three phase 3000 rpm LXM05BD57N4 at 380...480 V three phase 3000 rpm LXM05CD57N4 at 380...480 V three phase 3000 rpm LXM15MD28N4 at 400 V three phase 3000 rpm LXM15MD40N4 at 400 V three phase 4000 rpm LXM15MD28N4 at 480 V three phase 1500 rpm LXM15LD28M3 at 230 V three phase 1500 rpm LXM15MD56N4 at 230 V three phase 3000 rpm LXM15MD56N4 at 400 V three phase 3000 rpm LXM15MD56N4 at 480 V three phase 4000 rpm LXM15MD40N4 at 480 V three phase
Product compatibility	LXM05AD42M3X at 200...240 V three phase LXM05BD42M3X at 200...240 V three phase LXM05CD42M3X at 200...240 V three phase LXM15LD28M3 at 230 V three phase LXM15MD28N4 at 400 V three phase LXM15MD28N4 at 480 V three phase

LXM15MD40N4 at 400 V three phase
 LXM15MD40N4 at 480 V three phase
 LXM05AD57N4 at 380...480 V three phase
 LXM05BD57N4 at 380...480 V three phase
 LXM05CD57N4 at 380...480 V three phase
 LXM15MD28N4 at 230 V three phase
 LXM15MD40N4 at 230 V three phase
 LXM15MD56N4 at 230 V three phase
 LXM15MD56N4 at 400 V three phase
 LXM15MD56N4 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	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 05 Lexium 15
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	13.2 A
Continuous power	4.2 W
Maximum current I _{rms}	44.1 A LXM05AD42M3X 44.1 A LXM05AD57N4 44.1 A LXM05BD42M3X 44.1 A LXM05BD57N4 44.1 A LXM05CD42M3X 44.1 A LXM05CD57N4 44.1 A LXM15LD28M3 44.1 A LXM15MD28N4 44.1 A LXM15MD40N4 44.1 A LXM15MD56N4 72 A LXM32.D72N4
Maximum permanent current	44.1 A
Switching frequency	4 kHz
Second shaft	Without second shaft end
Shaft diameter	0.94 in (24 mm)
Shaft length	1.97 in (50 mm)
Feedback type	Multiturn SinCos Hiperface
Motor flange size	5.51 in (140 mm)
Number of motor stacks	2
Torque constant	1.47 N.m/A at 248 °F (120 °C)
Back emf constant	101 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	12.68 kg.cm ²
Stator resistance	0.6 Ohm at 68 °F (20 °C)
Stator inductance	7.4 mH at 68 °F (20 °C)
Stator electrical time constant	12.33 ms at 68 °F (20 °C)
Maximum radial force Fr	1680 N at 3000 rpm 1930 N at 2000 rpm 2430 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	10.73 in (272.5 mm)
Centring collar diameter	5.12 in (130 mm)
Centring collar depth	0.14 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.43 in (11 mm)
Circle diameter of the mounting holes	6.5 in (165 mm)

Product weight	36.6 lb(US) (16.6 kg)
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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

Contractual warranty

Warranty period	18 months
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