



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	3800 rpm
Continuous stall torque	198.23 lbf.in (22.4 N.m) LXM15MD40N4 at 230 V three phase 198.23 lbf.in (22.4 N.m) LXM15MD40N4 at 400 V three phase 198.23 lbf.in (22.4 N.m) LXM15MD40N4 at 480 V three phase 283.19 lbf.in (32 N.m) LXM15MD56N4 at 230 V three phase 283.19 lbf.in (32 N.m) LXM15MD56N4 at 400 V three phase 283.19 lbf.in (32 N.m) LXM15MD56N4 at 480 V three phase 300.88 lbf.in (34 N.m) LXM15HC11N4X at 400 V three phase 300.88 lbf.in (34 N.m) LXM15HC11N4X at 480 V three phase 318.58 lbf.in (36 N.m) LXM15HC11N4X at 230 V three phase
Peak stall torque	387.61 lbf.in (43.8 N.m) LXM15MD40N4 at 230 V three phase 387.61 lbf.in (43.8 N.m) LXM15MD40N4 at 400 V three phase 387.61 lbf.in (43.8 N.m) LXM15MD40N4 at 480 V three phase 541.59 lbf.in (61.2 N.m) LXM15MD56N4 at 230 V three phase 541.59 lbf.in (61.2 N.m) LXM15MD56N4 at 400 V three phase 541.59 lbf.in (61.2 N.m) LXM15MD56N4 at 480 V three phase 973.45 lbf.in (110 N.m) LXM15HC11N4X at 400 V three phase 973.45 lbf.in (110 N.m) LXM15HC11N4X at 480 V three phase 725.66 lbf.in (82 N.m) LXM15HC11N4X at 230 V three phase
Nominal output power	3500 W LXM15HC11N4X at 230 V three phase 3500 W LXM15MD40N4 at 230 V three phase 3500 W LXM15MD56N4 at 230 V three phase 6600 W LXM15HC11N4X at 400 V three phase 6600 W LXM15HC11N4X at 480 V three phase 6600 W LXM15MD40N4 at 400 V three phase 6600 W LXM15MD40N4 at 480 V three phase 6600 W LXM15MD56N4 at 400 V three phase 6600 W LXM15MD56N4 at 480 V three phase
Nominal torque	185.84 lbf.in (21 N.m) LXM15HC11N4X at 400 V three phase 185.84 lbf.in (21 N.m) LXM15HC11N4X at 480 V three phase 185.84 lbf.in (21 N.m) LXM15MD40N4 at 400 V three phase 185.84 lbf.in (21 N.m) LXM15MD40N4 at 480 V three phase 185.84 lbf.in (21 N.m) LXM15MD56N4 at 400 V three phase 185.84 lbf.in (21 N.m) LXM15MD56N4 at 480 V three phase 198.23 lbf.in (22.4 N.m) LXM15HC11N4X at 230 V three phase 198.23 lbf.in (22.4 N.m) LXM15MD56N4 at 230 V three phase 198.23 lbf.in (22.4 N.m) LXM15MD40N4 at 230 V

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	three phase
Nominal speed	1500 rpm LXM15MD40N4 at 230 V three phase 3000 rpm LXM15MD40N4 at 400 V three phase 3000 rpm LXM15MD40N4 at 480 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 1500 rpm LXM15HC11N4X at 230 V three phase 3000 rpm LXM15HC11N4X at 400 V three phase 3000 rpm LXM15HC11N4X at 480 V three phase
Product compatibility	LXM15MD40N4 at 400 V three phase LXM15MD40N4 at 480 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 LXM15HC11N4X at 400 V three phase LXM15HC11N4X at 480 V three phase LXM15HC11N4X at 230 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	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 15
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	21.5 A
Continuous power	6.93 W
Maximum current I _{rms}	78.1 A LXM15HC11N4X 78.1 A LXM15MD40N4 78.1 A LXM15MD56N4
Maximum permanent current	87.2 A
Second shaft	Without second shaft end
Shaft diameter	1.5 in (38 mm)
Shaft length	3.15 in (80 mm)
Key width	2.76 in (70 mm)
Feedback type	Single turn SinCos Hiperface
Motor flange size	8.07 in (205 mm)
Number of motor stacks	1
Torque constant	1.1 N.m/A at 248 °F (120 °C)
Back emf constant	104 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	77 kg.cm ²
Stator resistance	0.3 Ohm at 68 °F (20 °C)
Stator inductance	5.7 mH at 68 °F (20 °C)
Stator electrical time constant	19 ms at 68 °F (20 °C)
Maximum radial force Fr	2580 N at 3000 rpm 2960 N at 2000 rpm 3730 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	12.64 in (321 mm)
Centring collar diameter	7.09 in (180 mm)
Centring collar depth	0.16 in (4 mm)
Number of mounting holes	4
Mounting holes diameter	0.55 in (14 mm)
Circle diameter of the mounting holes	8.46 in (215 mm)

Product weight	77.16 lb(US) (35 kg)
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Environment

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1018 - Schneider Electric declaration of conformity	Compliant - since 1018 - 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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