



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	3800 rpm
Continuous stall torque	553.1 lbf.in (62.5 N.m) LXM15HC11N4X at 400 V three phase 553.1 lbf.in (62.5 N.m) LXM15HC11N4X at 480 V three phase 553.1 lbf.in (62.5 N.m) LXM15HC20N4X at 230 V three phase 553.1 lbf.in (62.5 N.m) LXM15HC20N4X at 400 V three phase 553.1 lbf.in (62.5 N.m) LXM15HC20N4X at 480 V three phase 575.22 lbf.in (65 N.m) LXM15HC11N4X at 230 V three phase
Peak stall torque	1946.9 lbf.in (220 N.m) LXM15HC20N4X at 400 V three phase 1946.9 lbf.in (220 N.m) LXM15HC20N4X at 480 V three phase 1711.95 lbf.in (193.45 N.m) LXM15HC20N4X at 230 V three phase 1049.03 lbf.in (118.54 N.m) LXM15HC11N4X at 230 V three phase 1680.53 lbf.in (189.9 N.m) LXM15HC11N4X at 400 V three phase 1680.53 lbf.in (189.9 N.m) LXM15HC11N4X at 480 V three phase
Nominal output power	5400 W LXM15HC11N4X at 230 V three phase 5400 W LXM15HC20N4X at 230 V three phase 7120 W LXM15HC11N4X at 400 V three phase 7120 W LXM15HC11N4X at 480 V three phase 7120 W LXM15HC20N4X at 400 V three phase 7120 W LXM15HC20N4X at 480 V three phase
Nominal torque	300.88 lbf.in (34 N.m) LXM15HC20N4X at 400 V three phase 300.88 lbf.in (34 N.m) LXM15HC20N4X at 480 V three phase 457.52 lbf.in (51.7 N.m) LXM15HC11N4X at 230 V three phase 457.52 lbf.in (51.7 N.m) LXM15HC20N4X at 230 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
Nominal speed	1000 rpm LXM15HC11N4X at 230 V three phase 1000 rpm LXM15HC20N4X at 230 V three phase 2000 rpm LXM15HC11N4X at 400 V three phase 2000 rpm LXM15HC11N4X at 480 V three phase 2000 rpm LXM15HC20N4X at 400 V three phase 2000 rpm LXM15HC20N4X at 480 V three phase
Product compatibility	LXM15HC11N4X at 400 V three phase LXM15HC11N4X at 480 V three phase LXM15HC11N4X at 230 V three phase LXM15HC20N4X at 230 V three phase LXM15HC20N4X at 400 V three phase LXM15HC20N4X 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	With

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Mounting support	International standard flange
Electrical connection	Power connection terminal Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 15
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	24.2 A
Continuous power	3.32 W
Maximum current Irms	96.8 A LXM15HC11N4X 96.8 A LXM15HC20N4X
Maximum permanent current	96.8 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	Multiturn SinCos Hiperface
Holding torque	707.96 lbf.in (80 N.m) (holding brake)
Motor flange size	8.07 in (205 mm)
Number of motor stacks	2
Torque constant	2.58 N.m/A at 248 °F (120 °C)
Back emf constant	161 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	145 kg.cm²
Stator resistance	0.3 Ohm at 68 °F (20 °C)
Stator inductance	5.4 mH at 68 °F (20 °C)
Stator electrical time constant	18 ms at 68 °F (20 °C)
Maximum radial force Fr	2910 N at 3000 rpm 3330 N at 2000 rpm 4200 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	40 W
Type of cooling	Natural convection
Length	17.89 in (454.5 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	118.17 lb(US) (53.6 kg)

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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