



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	9000 rpm
Continuous stall torque	1.05 N.m for LXM32.U60N4 1.5 A at 480 V three phase 1.05 N.m for LXM32.U60N4 1.5 A at 400 V three phase 1.3 N.m for LXM05AD10M2 at 200...240 V single phase 1.3 N.m for LXM05BD10M2 at 200...240 V single phase 1.3 N.m for LXM05CD10M2 at 200...240 V single phase 1.3 N.m for LXM15LD13M3 at 230 V single phase 1.3 N.m for LXM05AD10M3X at 200...240 V three phase 1.3 N.m for LXM05BD10M3X at 200...240 V three phase 1.3 N.m for LXM05CD10M3X at 200...240 V three phase 1.3 N.m for LXM15LD13M3 at 230 V three phase 1.3 N.m for LXM15LD10N4 at 400 V three phase 1.3 N.m for LXM05AD14N4 at 380...480 V three phase 1.3 N.m for LXM05BD14N4 at 380...480 V three phase 1.3 N.m for LXM05CD14N4 at 380...480 V three phase
Peak stall torque	3.5 N.m for LXM32.U60N4 1.5 A at 480 V three phase 3.5 N.m for LXM32.U60N4 1.5 A at 400 V three phase 2.7 N.m for LXM15LD13M3 at 230 V single phase 3.18 N.m for LXM05AD10M2 at 200...240 V single phase 3.18 N.m for LXM05BD10M2 at 200...240 V single phase 3.18 N.m for LXM05CD10M2 at 200...240 V single phase 2.7 N.m for LXM15LD13M3 at 230 V three phase 3.87 N.m for LXM15LD10N4 at 400 V three phase 3.18 N.m for LXM05AD10M3X at 200...240 V three phase 3.87 N.m for LXM05AD14N4 at 380...480 V three phase 3.18 N.m for LXM05BD10M3X at 200...240 V three phase 3.87 N.m for LXM05BD14N4 at 380...480 V three phase 3.18 N.m for LXM05CD10M3X at 200...240 V three phase 3.87 N.m for LXM05CD14N4 at 380...480 V three phase
Nominal output power	400 W for LXM32.U60N4 1.5 A at 400 V three phase 400 W for LXM32.U60N4 1.5 A at 480 V three phase 340 W for LXM15LD13M3 at 230 V single phase 350 W for LXM05AD10M2 at 200...240 V single phase 350 W for LXM05BD10M2 at 200...240 V single phase 350 W for LXM05CD10M2 at 200...240 V single phase 340 W for LXM15LD13M3 at 230 V three phase 350 W for LXM05AD10M3X at 200...240 V three phase 350 W for LXM05AD14N4 at 380...480 V three phase 350 W for LXM05BD10M3X at 200...240 V three phase 350 W for LXM05BD14N4 at 380...480 V three phase 350 W for LXM05CD10M3X at 200...240 V three phase

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

350 W for LXM05CD14N4 at 380...480 V three phase
 670 W for LXM15LD10N4 at 400 V three phase

Nominal torque	0.65 N.m for LXM32.U60N4 1.5 A at 400 V three phase 0.65 N.m for LXM32.U60N4 1.5 A at 480 V three phase 1.08 N.m for LXM15LD13M3 at 230 V single phase 1.1 N.m for LXM05AD10M2 at 200...240 V single phase 1.1 N.m for LXM05BD10M2 at 200...240 V single phase 1.1 N.m for LXM05CD10M2 at 200...240 V single phase 0.8 N.m for LXM15LD10N4 at 400 V three phase 1.08 N.m for LXM15LD13M3 at 230 V three phase 1.1 N.m for LXM05AD10M3X at 200...240 V three phase 1.1 N.m for LXM05AD14N4 at 380...480 V three phase 1.1 N.m for LXM05BD10M3X at 200...240 V three phase 1.1 N.m for LXM05BD14N4 at 380...480 V three phase 1.1 N.m for LXM05CD10M3X at 200...240 V three phase 1.1 N.m for LXM05CD14N4 at 380...480 V three phase
Nominal speed	6000 rpm for LXM32.U60N4 1.5 A at 480 V three phase 6000 rpm for LXM32.U60N4 1.5 A at 400 V three phase 3000 rpm for LXM05AD10M2 at 200...240 V single phase 3000 rpm for LXM05BD10M2 at 200...240 V single phase 3000 rpm for LXM05CD10M2 at 200...240 V single phase 3000 rpm for LXM15LD13M3 at 230 V single phase 3000 rpm for LXM05AD10M3X at 200...240 V three phase 3000 rpm for LXM05AD14N4 at 380...480 V three phase 3000 rpm for LXM05BD10M3X at 200...240 V three phase 3000 rpm for LXM05BD14N4 at 380...480 V three phase 3000 rpm for LXM05CD10M3X at 200...240 V three phase 3000 rpm for LXM05CD14N4 at 380...480 V three phase 3000 rpm for LXM15LD13M3 at 230 V three phase 8000 rpm for LXM15LD10N4 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 LXM15LD13M3 at 230 V single 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 LXM15LD10N4 at 400 V three phase
Shaft end	Untapped
IP degree of protection	IP50 (standard)
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 32 Lexium 05 Lexium 15
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	1.7 A
Continuous power	0.97 W
Maximum current Irms	6.5 A for LXM05AD10M2 6.5 A for LXM05AD10M3X 6.5 A for LXM05AD14N4 6.5 A for LXM05BD10M2 6.5 A for LXM05BD10M3X 6.5 A for LXM05BD14N4 6.5 A for LXM05CD10M2 6.5 A for LXM05CD10M3X 6.5 A for LXM05CD14N4

	8.7 A for LXM15LD10N4 8.7 A for LXM15LD13M3 6 A for LXM32.U60N4
Maximum permanent current	6.5 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	9 mm
Shaft length	20 mm
Feedback type	Multiturn SinCos Hiperface
Motor flange size	55 mm
Number of motor stacks	3
Torque constant	0.7 N.m/A at 120 °C
Back emf constant	41 V/krpm at 120 °C
Number of motor poles	6
Rotor inertia	0.134 kg.cm ²
Stator resistance	10.4 Ohm at 20 °C
Stator inductance	25 mH at 20 °C
Stator electrical time constant	2.4 ms at 20 °C
Maximum radial force Fr	190 N at 8000 rpm 200 N at 7000 rpm 210 N at 6000 rpm 230 N at 5000 rpm 240 N at 4000 rpm 270 N at 3000 rpm 310 N at 2000 rpm 390 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	176.5 mm
Centring collar diameter	40 mm
Centring collar depth	2 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	63 mm
Product weight	1.76 kg
Sizing reference	BSH0553P
Network number of phases	3
Accuracy error [angular]	1.4 °
Coefficient 1_1	-1.87500000003E-05 N.m/rpm
Coefficient 1_2	-2.567453870888E-18 N.m/rpm ²
Coefficient 1_3	1.186198773E-21 N.m/rpm ³
Coefficient 1_4	-0.000000000000000000002502 N.m/rpm ⁴
Coefficient 1_5	0.000000000000000000000000 N.m/rpm ⁵
Coefficient 1_6	0 N.m/rpm ⁶
Saturation coefficient 1	1.025108801551E-17
Saturation coefficient 2	-0.0105602262905634
Saturation coefficient 3	-6.32605712037E-19
Temperature copper hot	120 °C
Temperature magnet hot	100 °C
Temperature magnet rt	20 °C
Motor voltage drop coefficient	1

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0850 - Schneider Electric declaration of conformity

 Schneider Electric declaration of conformity

REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

Contractual warranty

Warranty period	18 months
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Product Life Status	END-OF-SALE NOTICE
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