



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	8000 rpm
Continuous stall torque	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 LXM15LU60N4 at 400 V three phase 1.3 N.m for LXM15LU60N4 at 480 V three 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
Peak stall torque	3.5 N.m for LXM05AD10M2 at 200...240 V single phase 3.5 N.m for LXM05BD10M2 at 200...240 V single phase 3.5 N.m for LXM05CD10M2 at 200...240 V single phase 3.5 N.m for LXM15LU60N4 at 400 V three phase 3.5 N.m for LXM15LU60N4 at 480 V three phase 3.5 N.m for LXM05AD10M3X at 200...240 V three phase 3.5 N.m for LXM05BD10M3X at 200...240 V three phase 3.5 N.m for LXM05CD10M3X at 200...240 V three phase
Nominal output power	190 W for LXM05AD10M2 at 200...240 V single phase 190 W for LXM05BD10M2 at 200...240 V single phase 190 W for LXM05CD10M2 at 200...240 V single phase 190 W for LXM05AD10M3X at 200...240 V three phase 190 W for LXM05BD10M3X at 200...240 V three phase 190 W for LXM05CD10M3X at 200...240 V three phase 460 W for LXM15LU60N4 at 400 V three phase 524 W for LXM15LU60N4 at 480 V three phase
Nominal torque	1.2 N.m for LXM05AD10M2 at 200...240 V single phase 1.2 N.m for LXM05BD10M2 at 200...240 V single phase 1.2 N.m for LXM05CD10M2 at 200...240 V single phase 1.1 N.m for LXM15LU60N4 at 400 V three phase 1.1 N.m for LXM15LU60N4 at 480 V three phase 1.2 N.m for LXM05AD10M3X at 200...240 V three phase 1.2 N.m for LXM05BD10M3X at 200...240 V three phase 1.2 N.m for LXM05CD10M3X at 200...240 V three phase
Nominal speed	1500 rpm for LXM05AD10M2 at 200...240 V single phase 1500 rpm for LXM05BD10M2 at 200...240 V single 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

1500 rpm for LXM05CD10M2 at 200...240 V single phase
 1500 rpm for LXM05AD10M3X at 200...240 V three phase
 1500 rpm for LXM05BD10M3X at 200...240 V three phase
 1500 rpm for LXM05CD10M3X at 200...240 V three phase
 4000 rpm for LXM15LU60N4 at 400 V three phase
 5000 rpm for LXM15LU60N4 at 480 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 LXM05AD10M3X at 200...240 V three phase LXM05BD10M3X at 200...240 V three phase LXM05CD10M3X at 200...240 V three phase LXM15LU60N4 at 400 V three phase LXM15LU60N4 at 480 V three phase
Shaft end	Untapped
IP degree of protection	IP65 (standard) IP67 (with IP67 kit)
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 05 Lexium 15
Supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	0.9 A
Maximum continuous power	0.97 W
Maximum current Irms	3.4 A for LXM05AD10M2 3.4 A for LXM05AD10M3X 3.4 A for LXM05BD10M2 3.4 A for LXM05BD10M3X 3.4 A for LXM05CD10M2 3.4 A for LXM05CD10M3X 3.6 A for LXM15LU60N4
Maximum permanent current	3.4 A
Switching frequency	4 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	1.18 N.m/A at 120 °C 1.33 N.m/A at 120 °C
Back emf constant	78 V/krpm at 120 °C 79 V/krpm at 120 °C
Number of motor poles	6
Rotor inertia	0.19 kg.cm ²
Stator resistance	32 Ohm at 20 °C 38.4 Ohm at 20 °C
Stator inductance	48 mH at 20 °C 92.2 mH at 20 °C
Stator electrical time constant	1.5 ms at 20 °C 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

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
-----------------	-----------