

Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	4000 rpm
Continuous stall torque	11.1 N.m for LXM15MD56N4 at 230 V three phase 11.4 N.m for LXM05AD42M3X at 200...240 V three phase 11.4 N.m for LXM05BD42M3X at 200...240 V three phase 11.4 N.m for LXM05CD42M3X at 200...240 V three phase
Peak stall torque	23.33 N.m for LXM15MD56N4 at 230 V three phase 23.33 N.m for LXM05AD42M3X at 200...240 V three phase 23.33 N.m for LXM05BD42M3X at 200...240 V three phase 23.33 N.m for LXM05CD42M3X at 200...240 V three phase
Nominal output power	2000 W for LXM15MD56N4 at 230 V three phase 2200 W for LXM05AD42M3X at 200...240 V three phase 2200 W for LXM05BD42M3X at 200...240 V three phase 2200 W for LXM05CD42M3X at 200...240 V three phase
Nominal torque	6.9 N.m for LXM05AD42M3X at 200...240 V three phase 6.9 N.m for LXM05BD42M3X at 200...240 V three phase 6.9 N.m for LXM05CD42M3X at 200...240 V three phase 7.63 N.m for LXM15MD56N4 at 230 V three phase
Nominal speed	3000 rpm for LXM05AD42M3X at 200...240 V three phase 3000 rpm for LXM05BD42M3X at 200...240 V three phase 3000 rpm for LXM05CD42M3X at 200...240 V three phase 2500 rpm for LXM15MD56N4 at 230 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 LXM15MD56N4 at 230 V three phase
Shaft end	Keyed
IP degree of protection	IP65 (standard) IP67 (with IP67 kit)
Speed feedback resolution	131072 points/turn
Holding brake	Without
Mounting support	International standard flange


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

Electrical connection	Straight connectors
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Complementary

Range compatibility	Lexium 05 Lexium 15
Supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	13.9 A
Maximum continuous power	3.6 W
Maximum current Irms	37.1 A for LXM05AD42M3X 37.1 A for LXM05BD42M3X 37.1 A for LXM05CD42M3X 37.1 A for LXM15MD56N4
Maximum permanent current	37.1 A
Switching frequency	4 kHz
Second shaft	Without second shaft end
Shaft diameter	24 mm
Shaft length	50 mm
Key width	40 mm
Feedback type	Single turn SinCos Hiperface
Motor flange size	140 mm
Number of motor stacks	1
Torque constant	0.83 N.m/A at 120 °C
Back emf constant	56 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	7.41 kg.cm ²
Stator resistance	0.4 Ohm at 20 °C 0.44 Ohm at 20 °C
Stator inductance	4.9 mH at 20 °C 5.15 mH at 20 °C
Stator electrical time constant	11.14 ms at 20 °C 12.88 ms at 20 °C
Maximum radial force Fr	1530 N at 3000 rpm 1760 N at 2000 rpm 2210 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	217.5 mm
Centring collar diameter	130 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	11 mm
Circle diameter of the mounting holes	165 mm
Product weight	11.9 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant  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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