



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	4000 rpm
Continuous stall torque	98.23 lbf.in (11.1 N.m) LXM15MD56N4 at 230 V three phase 100.88 lbf.in (11.4 N.m) LXM05AD42M3X at 200...240 V three phase 100.88 lbf.in (11.4 N.m) LXM05BD42M3X at 200...240 V three phase 100.88 lbf.in (11.4 N.m) LXM05CD42M3X at 200...240 V three phase
Peak stall torque	206.46 lbf.in (23.33 N.m) LXM15MD56N4 at 230 V three phase 206.46 lbf.in (23.33 N.m) LXM05AD42M3X at 200...240 V three phase 206.46 lbf.in (23.33 N.m) LXM05BD42M3X at 200...240 V three phase 206.46 lbf.in (23.33 N.m) LXM05CD42M3X at 200...240 V three phase
Nominal output power	2000 W LXM15MD56N4 at 230 V three phase 2200 W LXM05AD42M3X at 200...240 V three phase 2200 W LXM05BD42M3X at 200...240 V three phase 2200 W LXM05CD42M3X at 200...240 V three phase
Nominal torque	61.06 lbf.in (6.9 N.m) LXM05AD42M3X at 200...240 V three phase 61.06 lbf.in (6.9 N.m) LXM05BD42M3X at 200...240 V three phase 61.06 lbf.in (6.9 N.m) LXM05CD42M3X at 200...240 V three phase 67.52 lbf.in (7.63 N.m) LXM15MD56N4 at 230 V three phase
Nominal speed	3000 rpm LXM05AD42M3X at 200...240 V three phase 3000 rpm LXM05BD42M3X at 200...240 V three phase 3000 rpm LXM05CD42M3X at 200...240 V three phase 2500 rpm 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	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 05 Lexium 15
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	13.9 A

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Continuous power	3.6 W
Maximum current I _{rms}	37.1 A LXM05AD42M3X 37.1 A LXM05BD42M3X 37.1 A LXM05CD42M3X 37.1 A LXM15MD56N4
Maximum permanent current	37.1 A
Switching frequency	4 kHz
Second shaft	Without second shaft end
Shaft diameter	0.94 in (24 mm)
Shaft length	1.97 in (50 mm)
Key width	1.57 in (40 mm)
Feedback type	Multiturn SinCos Hiperface
Motor flange size	5.51 in (140 mm)
Number of motor stacks	1
Torque constant	0.83 N.m/A at 248 °F (120 °C)
Back emf constant	56 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	7.41 kg.cm ²
Stator resistance	0.4 Ohm at 68 °F (20 °C) 0.44 Ohm at 68 °F (20 °C)
Stator inductance	4.9 mH at 68 °F (20 °C) 5.15 mH at 68 °F (20 °C)
Stator electrical time constant	11.14 ms at 68 °F (20 °C) 12.88 ms at 68 °F (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	8.56 in (217.5 mm)
Centring collar diameter	5.12 in (130 mm)
Centring collar depth	0.14 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.43 in (11 mm)
Circle diameter of the mounting holes	6.5 in (165 mm)
Product weight	26.24 lb(US) (11.9 kg)

Environment

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0850 - Schneider Electric declaration of conformity	Compliant - since 0850 - 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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