



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	6000 rpm
Continuous stall torque	30.09 lbf.in (3.4 N.m) LXM05AD28F1 at 110...120 V single phase 30.09 lbf.in (3.4 N.m) LXM05AD28M2 at 200...240 V single phase 30.09 lbf.in (3.4 N.m) LXM05BD28F1 at 110...120 V single phase 30.09 lbf.in (3.4 N.m) LXM05BD28M2 at 200...240 V single phase 30.09 lbf.in (3.4 N.m) LXM05CD28F1 at 110...120 V single phase 30.09 lbf.in (3.4 N.m) LXM05CD28M2 at 200...240 V single phase 30 lbf.in (3.39 N.m) LXM15LD28M3 at 230 V three phase 30.09 lbf.in (3.4 N.m) LXM05AD42M3X at 200...240 V three phase 30.09 lbf.in (3.4 N.m) LXM05BD42M3X at 200...240 V three phase 30.09 lbf.in (3.4 N.m) LXM05CD42M3X at 200...240 V three phase 23.89 lbf.in (2.7 N.m) for LXM32.D18M2 6 A at 230 V single phase 29.2 lbf.in (3.3 N.m) LXM32.D30M2 10 A at 115 V single phase
Peak stall torque	75.22 lbf.in (8.5 N.m) LXM05AD28F1 at 110...120 V single phase 75.22 lbf.in (8.5 N.m) LXM05AD28M2 at 200...240 V single phase 75.22 lbf.in (8.5 N.m) LXM05BD28F1 at 110...120 V single phase 75.22 lbf.in (8.5 N.m) LXM05BD28M2 at 200...240 V single phase 75.22 lbf.in (8.5 N.m) LXM05CD28F1 at 110...120 V single phase 75.22 lbf.in (8.5 N.m) LXM05CD28M2 at 200...240 V single phase 75.22 lbf.in (8.5 N.m) LXM15LD28M3 at 230 V three phase 75.22 lbf.in (8.5 N.m) LXM05AD42M3X at 200...240 V three phase 75.22 lbf.in (8.5 N.m) LXM05BD42M3X at 200...240 V three phase 75.22 lbf.in (8.5 N.m) LXM05CD42M3X at 200...240 V three phase 66.37 lbf.in (7.5 N.m) for LXM32.D18M2 6 A at 230 V single phase 55.75 lbf.in (6.3 N.m) LXM32.D30M2 10 A at 115 V single phase
Nominal output power	500 W LXM05AD28F1 at 110...120 V single phase 500 W LXM05BD28F1 at 110...120 V single phase 500 W LXM05CD28F1 at 110...120 V single phase 900 W LXM05AD28M2 at 200...240 V single phase 900 W LXM05BD28M2 at 200...240 V single phase 900 W LXM05CD28M2 at 200...240 V single phase 1150 W LXM15LD28M3 at 230 V three phase 900 W LXM05AD42M3X at 200...240 V three phase 900 W LXM05BD42M3X at 200...240 V three phase 900 W LXM05CD42M3X at 200...240 V three phase 900 W for LXM32.D18M2 6 A at 230 V single phase 700 W LXM32.D30M2 10 A at 115 V single phase

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.

Nominal torque	25.66 lbf.in (2.9 N.m) LXM05AD28M2 at 200...240 V single phase 25.66 lbf.in (2.9 N.m) LXM05BD28M2 at 200...240 V single phase 25.66 lbf.in (2.9 N.m) LXM05CD28M2 at 200...240 V single phase 27.96 lbf.in (3.16 N.m) LXM05AD28F1 at 110...120 V single phase 27.96 lbf.in (3.16 N.m) LXM05BD28F1 at 110...120 V single phase 27.96 lbf.in (3.16 N.m) LXM05CD28F1 at 110...120 V single phase 24.34 lbf.in (2.75 N.m) LXM15LD28M3 at 230 V three phase 25.66 lbf.in (2.9 N.m) LXM05AD42M3X at 200...240 V three phase 25.66 lbf.in (2.9 N.m) LXM05BD42M3X at 200...240 V three phase 25.66 lbf.in (2.9 N.m) LXM05CD42M3X at 200...240 V three phase 19.47 lbf.in (2.2 N.m) for LXM32.D18M2 6 A at 230 V single phase 24.34 lbf.in (2.75 N.m) LXM32.D30M2 10 A at 115 V single phase
Nominal speed	1500 rpm LXM05AD28F1 at 110...120 V single phase 1500 rpm LXM05BD28F1 at 110...120 V single phase 1500 rpm LXM05CD28F1 at 110...120 V single phase 3000 rpm LXM05AD28M2 at 200...240 V single phase 3000 rpm LXM05BD28M2 at 200...240 V single phase 3000 rpm LXM05CD28M2 at 200...240 V single phase 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 4000 rpm LXM15LD28M3 at 230 V three phase 4000 rpm for LXM32.D18M2 6 A at 230 V single phase 2500 rpm LXM32.D30M2 10 A at 115 V single phase
Product compatibility	LXM05AD28F1 at 110...120 V single phase LXM05AD28M2 at 200...240 V single phase LXM05BD28F1 at 110...120 V single phase LXM05BD28M2 at 200...240 V single phase LXM05CD28F1 at 110...120 V single phase LXM05CD28M2 at 200...240 V single phase LXM32.D30M2 at 115 V single phase LXM32.D18M2 at 230 V single phase LXM05AD42M3X at 200...240 V three phase LXM05BD42M3X at 200...240 V three phase LXM05CD42M3X at 200...240 V three phase LXM15LD28M3 at 230 V three phase
Shaft end	Untapped
IP degree of protection	IP50 (standard)
Speed feedback resolution	131072 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 05 Lexium 15 Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	7.3 A

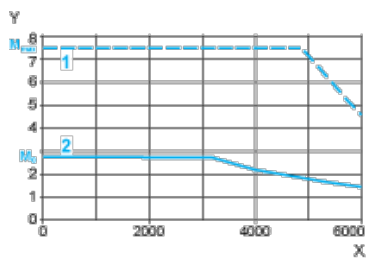
Continuous power	1.6 W
Maximum current I _{rms}	23 A LXM15LD28M3 25.1 A LXM05AD28F1 25.1 A LXM05AD28M2 25.1 A LXM05AD42M3X 25.1 A LXM05BD28F1 25.1 A LXM05BD28M2 25.1 A LXM05BD42M3X 25.1 A LXM05CD28F1 25.1 A LXM05CD28M2 25.1 A LXM05CD42M3X 15 A LXM32.D30M2 at 115 V 18 A LXM32.D18M2 at 230 V
Maximum permanent current	25.1 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	0.75 in (19 mm)
Shaft length	1.57 in (40 mm)
Feedback type	Single turn SinCos Hiperface
Motor flange size	3.94 in (100 mm)
Number of motor stacks	1
Torque constant	0.45 N.m/A at 248 °F (120 °C)
Back emf constant	29 V/krpm at 248 °F (120 °C)
Number of motor poles	8
Rotor inertia	1.4 kg.cm ²
Stator resistance	0.87 Ohm at 68 °F (20 °C)
Stator inductance	4 mH at 68 °F (20 °C)
Stator electrical time constant	4.6 ms at 68 °F (20 °C)
Maximum radial force Fr	530 N at 5000 rpm 570 N at 4000 rpm 630 N at 3000 rpm 720 N at 2000 rpm 900 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	6.63 in (168.5 mm)
Centring collar diameter	3.74 in (95 mm)
Centring collar depth	0.14 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.35 in (9 mm)
Circle diameter of the mounting holes	4.53 in (115 mm)
Product weight	9.26 lb(US) (4.2 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
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Lead and lead compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm.	Lead and lead compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov

Contractual warranty



X Speed in rpm

Y Torque in Nm

1 Peak torque

2 Continuous torque