

BSH0703T11A1A

AC servo motor BSH - 2.8 Nm - 8000 rpm - key shaft - without brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	2.8 N.m for LXM05AD28F1 at 110...120 V single phase 2.8 N.m for LXM05AD28M2 at 200...240 V single phase 2.8 N.m for LXM05AD42M3X at 200...240 V 3 phases 2.8 N.m for LXM05BD28F1 at 110...120 V single phase 2.8 N.m for LXM05BD28M2 at 200...240 V single phase 2.8 N.m for LXM05BD42M3X at 200...240 V 3 phases 2.8 N.m for LXM05CD28F1 at 110...120 V single phase 2.8 N.m for LXM05CD28M2 at 200...240 V single phase 2.8 N.m for LXM05CD42M3X at 200...240 V 3 phases 2.83 N.m for LXM15LD28M3 at 230 V 3 phases
Peak stall torque	7.38 N.m for LXM15LD28M3 at 230 V 3 phases 7.38 N.m for LXM05AD28F1 at 110...120 V single phase 7.38 N.m for LXM05AD28M2 at 200...240 V single phase 7.38 N.m for LXM05BD28F1 at 110...120 V single phase 7.38 N.m for LXM05BD28M2 at 200...240 V single phase 7.38 N.m for LXM05CD28F1 at 110...120 V single phase 7.38 N.m for LXM05CD28M2 at 200...240 V single phase 10.25 N.m for LXM05AD42M3X at 200...240 V 3 phases 10.25 N.m for LXM05BD42M3X at 200...240 V 3 phases 10.25 N.m for LXM05CD42M3X at 200...240 V 3 phases
Nominal output power	750 W for LXM05AD28F1 at 110...120 V single phase 750 W for LXM05AD28M2 at 200...240 V single phase 750 W for LXM05AD42M3X at 200...240 V 3 phases 750 W for LXM05BD28F1 at 110...120 V single phase 750 W for LXM05BD28M2 at 200...240 V single phase 750 W for LXM05BD42M3X at 200...240 V 3 phases 750 W for LXM05CD28F1 at 110...120 V single phase 750 W for LXM05CD28M2 at 200...240 V single phase 750 W for LXM05CD42M3X at 200...240 V 3 phases 1250 W for LXM15LD28M3 at 230 V 3 phases

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 speed	3000 rpm for LXM05AD28F1 at 110...120 V single phase 3000 rpm for LXM05AD28M2 at 200...240 V single phase 3000 rpm for LXM05AD42M3X at 200...240 V 3 phases 3000 rpm for LXM05BD28F1 at 110...120 V single phase 3000 rpm for LXM05BD28M2 at 200...240 V single phase 3000 rpm for LXM05BD42M3X at 200...240 V 3 phases 3000 rpm for LXM05CD28F1 at 110...120 V single phase 3000 rpm for LXM05CD28M2 at 200...240 V single phase 3000 rpm for LXM05CD42M3X at 200...240 V 3 phases 6000 rpm for LXM15LD28M3 at 230 V 3 phases
Maximum mechanical speed	8000 rpm
Product compatibility	LXM05AD28F1 at 110...120 V single phase LXM05AD28M2 at 200...240 V single phase LXM05AD42M3X at 200...240 V 3 phases LXM05BD28F1 at 110...120 V single phase LXM05BD28M2 at 200...240 V single phase LXM05BD42M3X at 200...240 V 3 phases LXM05CD28F1 at 110...120 V single phase LXM05CD28M2 at 200...240 V single phase LXM05CD42M3X at 200...240 V 3 phases LXM15LD28M3 at 230 V 3 phases
Shaft end	Keyed
IP degree of protection	IP50
Encoder type	Absolute single turn SinCos Hiperface
Encoder feedback resolution	131072 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Straight connectors
Number of poles	6

Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	2 N.m for LXM15LD28M3 at 230 V 3 phases 2.4 N.m for LXM05AD28F1 at 110...120 V single phase 2.4 N.m for LXM05AD28M2 at 200...240 V single phase 2.4 N.m for LXM05AD42M3X at 200...240 V 3 phases 2.4 N.m for LXM05BD28F1 at 110...120 V single phase 2.4 N.m for LXM05BD28M2 at 200...240 V single phase 2.4 N.m for LXM05BD42M3X at 200...240 V 3 phases 2.4 N.m for LXM05CD28F1 at 110...120 V single phase 2.4 N.m for LXM05CD28M2 at 200...240 V single phase 2.4 N.m for LXM05CD42M3X at 200...240 V 3 phases
Maximum current Irms	29.2 A for LXM05AD28F1 29.2 A for LXM05AD28M2 29.2 A for LXM05AD42M3X 29.2 A for LXM05BD28F1 29.2 A for LXM05BD28M2 29.2 A for LXM05BD42M3X 29.2 A for LXM05CD28F1 29.2 A for LXM05CD28M2 29.2 A for LXM05CD42M3X 30.9 A for LXM15LD28M3
Switching frequency	8 kHz for LEX05
Torque constant	0.42 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	29 V rms/krpm at 120 °C
Rotor inertia	0.58 kg.cm ² without brake
Stator resistance	0.9 Ohm at 20 °C 0.91 Ohm at 20 °C

Stator inductance	4.4 mH at 20 °C 5 mH at 20 °C
Stator electrical time constant	4.84 ms at 20 °C 5.55 ms at 20 °C
Maximum radial force Fr	400 N at 6000 rpm 430 N at 5000 rpm 460 N at 4000 rpm 510 N at 3000 rpm 580 N at 2000 rpm 730 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	3.62 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant