

BSH1001T02F1A

AC servo motor BSH - 3.4 Nm - 6000 rpm -
untapped shaft - with brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	3.39 N.m for LXM15LD28M3 at 230 V 3 phases 3.4 N.m for LXM05AD28F1 at 110...120 V single phase 3.4 N.m for LXM05AD28M2 at 200...240 V single phase 3.4 N.m for LXM05AD42M3X at 200...240 V 3 phases 3.4 N.m for LXM05BD28F1 at 110...120 V single phase 3.4 N.m for LXM05BD28M2 at 200...240 V single phase 3.4 N.m for LXM05BD42M3X at 200...240 V 3 phases 3.4 N.m for LXM05CD28F1 at 110...120 V single phase 3.4 N.m for LXM05CD28M2 at 200...240 V single phase 3.4 N.m for LXM05CD42M3X at 200...240 V 3 phases
Peak stall torque	8.5 N.m for LXM15LD28M3 at 230 V 3 phases 8.5 N.m for LXM05AD28F1 at 110...120 V single phase 8.5 N.m for LXM05AD28M2 at 200...240 V single phase 8.5 N.m for LXM05AD42M3X at 200...240 V 3 phases 8.5 N.m for LXM05BD28F1 at 110...120 V single phase 8.5 N.m for LXM05BD28M2 at 200...240 V single phase 8.5 N.m for LXM05BD42M3X at 200...240 V 3 phases 8.5 N.m for LXM05CD28F1 at 110...120 V single phase 8.5 N.m for LXM05CD28M2 at 200...240 V single phase 8.5 N.m for LXM05CD42M3X at 200...240 V 3 phases
Nominal output power	500 W for LXM05AD28F1 at 110...120 V single phase 500 W for LXM05BD28F1 at 110...120 V single phase 500 W for LXM05CD28F1 at 110...120 V single phase 900 W for LXM05AD28M2 at 200...240 V single phase 900 W for LXM05AD42M3X at 200...240 V 3 phases 900 W for LXM05BD28M2 at 200...240 V single phase 900 W for LXM05BD42M3X at 200...240 V 3 phases 900 W for LXM05CD28M2 at 200...240 V single phase 900 W for LXM05CD42M3X at 200...240 V 3 phases 1150 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	1500 rpm for LXM05AD28F1 at 110...120 V single phase 1500 rpm for LXM05BD28F1 at 110...120 V single phase 1500 rpm for LXM05CD28F1 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 LXM05BD28M2 at 200...240 V single phase 3000 rpm for LXM05BD42M3X at 200...240 V 3 phases 3000 rpm for LXM05CD28M2 at 200...240 V single phase 3000 rpm for LXM05CD42M3X at 200...240 V 3 phases 4000 rpm for LXM15LD28M3 at 230 V 3 phases
Maximum mechanical speed	6000 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	Untapped
IP degree of protection	IP50
Encoder type	Absolute multiturn SinCos Hiperface
Encoder feedback resolution	131072 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange
Electrical connection	Straight connectors
Number of poles	8

Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	2.75 N.m for LXM15LD28M3 at 230 V 3 phases 2.9 N.m for LXM05AD28M2 at 200...240 V single phase 2.9 N.m for LXM05AD42M3X at 200...240 V 3 phases 2.9 N.m for LXM05BD28M2 at 200...240 V single phase 2.9 N.m for LXM05BD42M3X at 200...240 V 3 phases 2.9 N.m for LXM05CD28M2 at 200...240 V single phase 2.9 N.m for LXM05CD42M3X at 200...240 V 3 phases 3.16 N.m for LXM05AD28F1 at 110...120 V single phase 3.16 N.m for LXM05BD28F1 at 110...120 V single phase 3.16 N.m for LXM05CD28F1 at 110...120 V single phase
Maximum current Irms	23 A for LXM15LD28M3 25.1 A for LXM05AD28F1 25.1 A for LXM05AD28M2 25.1 A for LXM05AD42M3X 25.1 A for LXM05BD28F1 25.1 A for LXM05BD28M2 25.1 A for LXM05BD42M3X 25.1 A for LXM05CD28F1 25.1 A for LXM05CD28M2 25.1 A for LXM05CD42M3X
Switching frequency	8 kHz for LEX05
Torque constant	0.45 N.m/A rms at 120 °C 0.51 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	28 V rms/krpm at 120 °C 29 V rms/krpm at 120 °C
Rotor inertia	2.018 kg.cm ² with brake

Stator resistance	0.87 Ohm at 20 °C 0.9 Ohm at 20 °C
Stator inductance	4 mH at 20 °C 4.3 mH at 20 °C
Stator electrical time constant	4.6 ms at 20 °C 4.78 ms at 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
Product weight	4.2 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant