

# BSH1001T11A1A

AC servo motor BSH - 3.4 Nm - 6000 rpm - key shaft - without 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

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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	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	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	1.4 kg.cm <sup>2</sup> without 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