

Product datasheet

Specifications

Motors



AC servo motor BDH - 14.4 N.m - 6000 rpm - key shaft - with brake - IP54

BDH1084K12F2B

EAN Code: 3389118187047

! Discontinued

Main

Product or component type	AC servo motors
Component name	BDH
Continuous stall torque	14.4 N.m for LXM15LD28M3 3 phases 14.4 N.m for LXM15MD28N4 3 phases
Peak stall torque	28.1 N.m for LXM15LD28M3 at 230 V 3 phases 28.1 N.m for LXM15MD28N4 at 230 V 3 phases 28.1 N.m for LXM15MD28N4 at 400 V 3 phases 28.1 N.m for LXM15MD28N4 at 480 V 3 phases
Nominal output power	2200 W for LXM15LD28M3 at 230 V 3 phases 2200 W for LXM15MD28N4 at 230 V 3 phases 3800 W for LXM15MD28N4 at 400 V 3 phases 4000 W for LXM15MD28N4 at 480 V 3 phases
Nominal torque	12.1 N.m for LXM15LD28M3 at 230 V 3 phases 12.1 N.m for LXM15MD28N4 at 230 V 3 phases 8.61 N.m for LXM15MD28N4 at 480 V 3 phases 9.22 N.m for LXM15MD28N4 at 400 V 3 phases
Nominal speed	2000 rpm for LXM15LD28M3 at 230 V 3 phases 2000 rpm for LXM15MD28N4 at 230 V 3 phases 4000 rpm for LXM15MD28N4 at 400 V 3 phases 4500 rpm for LXM15MD28N4 at 480 V 3 phases
Maximum mechanical speed	6000 rpm
Product compatibility	LXM15LD28M3 at 230 V 3 phases LXM15MD28N4 at 230 V 3 phases LXM15MD28N4 at 400 V 3 phases LXM15MD28N4 at 480 V 3 phases
Shaft end	Keyed
IP degree of protection	IP54
Encoder type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	1048576 points/turn x 4096 turns
Holding brake	With
Mounting support	NEMA flange
Electrical connection	Rotatable right-angled connectors
Number of poles	10

Complementary

Range compatibility	Lexium 15
Maximum current Irms	20.65 A
Torque constant	1.5 N.m/A at 120 °C

Disclaimer: 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

Back emf constant	96.6 V/krpm at 120 °C
Stator resistance	1.02 Ohm at 20 °C
Stator inductance	6.2 mH at 20 °C
Stator electrical time constant	6.08 ms at 20 °C
Maximum radial force Fr	300 N at 6000 rpm 325 N at 5000 rpm 350 N at 4000 rpm 375 N at 3000 rpm 400 N at 2000 rpm 425 N at 1000 rpm
Maximum axial force Fa	0.3 x Fr
Net weight	9 kg



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Longer

Lifetime extension	
Repair	No