

Product datasheet

Specifications



AC servo motor BDH - 3.96 N.m - 6000 rpm - key shaft - without brake - IP67

BDH1081G31A2A

⚠ Discontinued on: 8 Jul 2022

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EAN Code: 3389118177277

Main

Product or component type	AC servo motors
Component name	BDH
Continuous stall torque	3.96 N.m for LXM15LD21M3 single phase 4.75 N.m for LXM15LD17N4 3 phases 4.75 N.m for LXM15LD21M3 3 phases
Peak stall torque	10.82 N.m for LXM15LD17N4 at 230 V 3 phases 10.82 N.m for LXM15LD17N4 at 400 V 3 phases 10.82 N.m for LXM15LD17N4 at 480 V 3 phases 10.82 N.m for LXM15LD21M3 at 230 V 3 phases 9.41 N.m for LXM15LD21M3 at 230 V single phase
Nominal output power	1000 W for LXM15LD17N4 at 230 V 3 phases 1000 W for LXM15LD21M3 at 230 V 3 phases 1200 W for LXM15LD17N4 at 480 V 3 phases 1300 W for LXM15LD17N4 at 400 V 3 phases 600 W for LXM15LD21M3 at 230 V single phase
Nominal torque	2.35 N.m for LXM15LD17N4 at 480 V 3 phases 2.75 N.m for LXM15LD17N4 at 400 V 3 phases 3.65 N.m for LXM15LD17N4 at 230 V 3 phases 3.65 N.m for LXM15LD21M3 at 230 V 3 phases 3.96 N.m for LXM15LD21M3 at 230 V single phase
Nominal speed	1500 rpm for LXM15LD21M3 at 230 V single phase 2500 rpm for LXM15LD17N4 at 230 V 3 phases 2500 rpm for LXM15LD21M3 at 230 V 3 phases 4500 rpm for LXM15LD17N4 at 400 V 3 phases 5000 rpm for LXM15LD17N4 at 480 V 3 phases
Maximum mechanical speed	6000 rpm
Product compatibility	LXM15LD17N4 at 230 V 3 phases LXM15LD17N4 at 400 V 3 phases LXM15LD17N4 at 480 V 3 phases LXM15LD21M3 at 230 V 3 phases LXM15LD21M3 at 230 V single phase
Shaft end	Keyed
IP degree of protection	IP67
Encoder type	Absolute single turn SinCos Hiperface
Speed feedback resolution	1048576 points/turn
Holding brake	Without
Mounting support	International IEC standard flange
Electrical connection	Rotatable right-angled connectors
Number of poles	10

Complementary

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Range compatibility	Lexium 15
Maximum current Irms	10.25 A
Torque constant	0.99 N.m/A at 120 °C
Back emf constant	63.6 V/krpm at 120 °C
Stator resistance	2.75 Ohm at 20 °C
Stator inductance	12.1 mH at 20 °C
Stator electrical time constant	4.4 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	4.2 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.

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[How we assess product sustainability >](#)

Use Longer

Lifetime extension	
Repair	No