

Product datasheet

Specifications



AC servo motor BDH - 3.96 N.m - 6000 rpm - untapped shaft - without brake - IP54

BDH1081G02A2A

⚠ Discontinued on: 8 Jul 2022

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EAN Code: 3389118176980

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 | Untapped |
| IP degree of protection | IP54 |
| Encoder type | Absolute multiturn SinCos Hiperface |
| Speed feedback resolution | 1048576 points/turn x 4096 turns |
| Holding brake | Without |
| Mounting support | International IEC standard flange |
| Electrical connection | Rotatable right-angled connectors |
| Number of poles | 10 |

Complementary

| | |
|--|--|
| 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