

# Product datasheet

Specifications



## AC servo motor BDH - 3.96 N.m - 6000 rpm - untapped shaft - with brake -IP54

BDH1081G05F2A

⚠ Discontinued on: 8 Jul 2022

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EAN Code: 3389118177079

### 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	2-pole resolver
Speed feedback resolution	65536 points/turn
Holding brake	With
Mounting support	International IEC standard flange
Electrical connection	Rotatable right-angled connectors
Number of poles	10

### Complementary

<b>Range compatibility</b>	Lexium 15
<b>Maximum current Irms</b>	10.25 A
<b>Torque constant</b>	0.99 N.m/A at 120 °C
<b>Back emf constant</b>	63.6 V/krpm at 120 °C
<b>Stator resistance</b>	2.75 Ohm at 20 °C
<b>Stator inductance</b>	12.1 mH at 20 °C
<b>Stator electrical time constant</b>	4.4 ms at 20 °C
<b>Maximum radial force Fr</b>	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
<b>Maximum axial force Fa</b>	0.3 x Fr
<b>Net weight</b>	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.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Longer



#### Lifetime extension

Repair

No