

Product datasheet

Specifications

Motors



AC servo motor BDH - 1.16 N.m - 8000 rpm - key shaft - with brake - IP67

BDH0583D31F2A

⚠ Discontinued on: 8 Jul 2022

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EAN Code: 3389118170612

Main

Product or component type	AC servo motors
Component name	BDH
Continuous stall torque	1.16 N.m for LXM15LD10N4 3 phases 1.16 N.m for LXM15LD13M3 3 phases 1.16 N.m for LXM15LD13M3 single phase
Peak stall torque	3.58 N.m for LXM15LD10N4 at 230 V 3 phases 3.58 N.m for LXM15LD10N4 at 400 V 3 phases 3.58 N.m for LXM15LD10N4 at 480 V 3 phases 3.58 N.m for LXM15LD13M3 at 230 V 3 phases 3.58 N.m for LXM15LD13M3 at 230 V single phase
Nominal output power	450 W for LXM15LD10N4 at 230 V 3 phases 450 W for LXM15LD13M3 at 230 V 3 phases 450 W for LXM15LD13M3 at 230 V single phase 750 W for LXM15LD10N4 at 400 V 3 phases 800 W for LXM15LD10N4 at 480 V 3 phases
Nominal torque	0.94 N.m for LXM15LD10N4 at 400 V 3 phases 0.94 N.m for LXM15LD10N4 at 480 V 3 phases 1.05 N.m for LXM15LD13M3 at 230 V 3 phases 1.06 N.m for LXM15LD10N4 at 230 V 3 phases 1.06 N.m for LXM15LD13M3 at 230 V single phase
Nominal speed	4000 rpm for LXM15LD10N4 at 230 V 3 phases 4000 rpm for LXM15LD13M3 at 230 V 3 phases 4000 rpm for LXM15LD13M3 at 230 V single phase 7500 rpm for LXM15LD10N4 at 400 V 3 phases 8000 rpm for LXM15LD10N4 at 480 V 3 phases
Maximum mechanical speed	8000 rpm
Product compatibility	LXM15LD10N4 at 230 V 3 phases LXM15LD10N4 at 400 V 3 phases LXM15LD10N4 at 480 V 3 phases LXM15LD13M3 at 230 V 3 phases LXM15LD13M3 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	With
Mounting support	International IEC standard flange
Electrical connection	Rotatable right-angled connectors
Number of poles	6

Complementary

Range compatibility	Lexium 15
Maximum current Irms	6.22 A
Torque constant	0.52 N.m/A at 120 °C
Back emf constant	33.8 V/krpm at 120 °C
Stator resistance	8.36 Ohm at 20 °C
Stator inductance	17.3 mH at 20 °C
Stator electrical time constant	2.07 ms at 20 °C
Maximum radial force Fr	127 N at 8000 rpm 128 N at 7000 rpm 130 N at 6000 rpm 132 N at 5000 rpm 133 N at 4000 rpm 135 N at 3000 rpm 137 N at 2000 rpm 138 N at 1000 rpm
Maximum axial force Fa	0.3 x Fr
Net weight	1.38 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