

Product datasheet

Specifications

Motors



AC servo motor BDH - 3.42 N.m - 6000 rpm - key shaft - with brake - IP54

BDH0842E12F2A

⚠ Discontinued on: 8 Jul 2022

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EAN Code: 3389118174610

Main

Product or component type	AC servo motors
Component name	BDH
Continuous stall torque	3.42 N.m for LXM15LD10N4 3 phases 3.42 N.m for LXM15LD13M3 3 phases 3.42 N.m for LXM15LD13M3 single phase
Peak stall torque	9.41 N.m for LXM15LD10N4 at 230 V 3 phases 9.41 N.m for LXM15LD10N4 at 400 V 3 phases 9.41 N.m for LXM15LD10N4 at 480 V 3 phases 9.72 N.m for LXM15LD13M3 at 230 V 3 phases 9.72 N.m for LXM15LD13M3 at 230 V single phase
Nominal output power	1000 W for LXM15LD10N4 at 480 V 3 phases 500 W for LXM15LD10N4 at 230 V 3 phases 500 W for LXM15LD13M3 at 230 V 3 phases 500 W for LXM15LD13M3 at 230 V single phase 900 W for LXM15LD10N4 at 400 V 3 phases
Nominal torque	2.8 N.m for LXM15LD10N4 at 480 V 3 phases 2.9 N.m for LXM15LD10N4 at 400 V 3 phases 3.15 N.m for LXM15LD10N4 at 230 V 3 phases 3.15 N.m for LXM15LD13M3 at 230 V 3 phases 3.15 N.m for LXM15LD13M3 at 230 V single phase
Nominal speed	1500 rpm for LXM15LD10N4 at 230 V 3 phases 1500 rpm for LXM15LD13M3 at 230 V 3 phases 1500 rpm for LXM15LD13M3 at 230 V single phase 3000 rpm for LXM15LD10N4 at 400 V 3 phases 3500 rpm for LXM15LD10N4 at 480 V 3 phases
Maximum mechanical speed	6000 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	IP54
Encoder type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	1048576 points/turn x 4096 turns
Holding brake	With
Mounting support	International IEC standard flange
Electrical connection	Rotatable right-angled connectors
Number of poles	10

Complementary

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

Range compatibility	Lexium 15
Maximum current Irms	7.78 A
Torque constant	1.26 N.m/A at 120 °C
Back emf constant	80.9 V/krpm at 120 °C
Stator resistance	7.22 Ohm at 20 °C
Stator inductance	26.8 mH at 20 °C
Stator electrical time constant	3.71 ms at 20 °C
Maximum radial force Fr	310 N at 6000 rpm 340 N at 5000 rpm 370 N at 4000 rpm 400 N at 3000 rpm 430 N at 2000 rpm 460 N at 1000 rpm
Maximum axial force Fa	0.3 x Fr
Net weight	3.39 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