

# Product datasheet

Specifications

## Motors



## AC servo motor BDH - 2.02 N.m - 6000 rpm - key shaft - with brake - IP54

BDH0841E12F2A

⚠ Discontinued on: 8 Jul 2022

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EAN Code: 3389118173859

## Main

Product or component type	AC servo motors
Component name	BDH
Continuous stall torque	2.02 N.m for LXM15LD10N4 3 phases 2.02 N.m for LXM15LD13M3 3 phases 2.02 N.m for LXM15LD13M3 single phase
Peak stall torque	5.13 N.m for LXM15LD10N4 at 230 V 3 phases 5.13 N.m for LXM15LD10N4 at 400 V 3 phases 5.13 N.m for LXM15LD10N4 at 480 V 3 phases 5.33 N.m for LXM15LD13M3 at 230 V 3 phases 5.33 N.m for LXM15LD13M3 at 230 V single phase
Nominal output power	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 800 W for LXM15LD10N4 at 400 V 3 phases 950 W for LXM15LD10N4 at 480 V 3 phases
Nominal torque	1.62 N.m for LXM15LD10N4 at 480 V 3 phases 1.67 N.m for LXM15LD10N4 at 400 V 3 phases 1.84 N.m for LXM15LD10N4 at 230 V 3 phases 1.84 N.m for LXM15LD13M3 at 230 V 3 phases 1.84 N.m for LXM15LD13M3 at 230 V single phase
Nominal speed	2500 rpm for LXM15LD10N4 at 230 V 3 phases 2500 rpm for LXM15LD13M3 at 230 V 3 phases 2500 rpm for LXM15LD13M3 at 230 V single phase 5000 rpm for LXM15LD10N4 at 400 V 3 phases 5500 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

<b>Range compatibility</b>	Lexium 15
<b>Maximum current Irms</b>	8.06 A
<b>Torque constant</b>	0.71 N.m/A at 120 °C
<b>Back emf constant</b>	45.6 V/krpm at 120 °C
<b>Stator resistance</b>	5.7 Ohm at 20 °C
<b>Stator inductance</b>	18.4 mH at 20 °C
<b>Stator electrical time constant</b>	3.23 ms at 20 °C
<b>Maximum radial force Fr</b>	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
<b>Maximum axial force Fa</b>	0.3 x Fr
<b>Net weight</b>	2.44 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