

# Product datasheet

Specifications

## Motors



AC servo motor BDH - 1.42 N.m - 8000 rpm - key shaft - with brake - IP54

BDH0584F12F2A

⚠ Discontinued on: 8 Jul 2022

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EAN Code: 3389118171428

## Main

Product or component type	AC servo motors
Component name	BDH
Continuous stall torque	1.42 N.m for LXM15LD21M3 3 phases 1.42 N.m for LXM15LD21M3 single phase
Peak stall torque	3.57 N.m for LXM15LD21M3 at 230 V single phase 4.46 N.m for LXM15LD21M3 at 230 V 3 phases
Nominal output power	670 W for LXM15LD21M3 at 230 V single phase 700 W for LXM15LD21M3 at 230 V 3 phases
Nominal torque	1.03 N.m for LXM15LD21M3 at 230 V 3 phases 1.06 N.m for LXM15LD21M3 at 230 V single phase
Nominal speed	6000 rpm for LXM15LD21M3 at 230 V single phase 6500 rpm for LXM15LD21M3 at 230 V 3 phases
Maximum mechanical speed	8000 rpm
Product compatibility	LXM15LD21M3 at 230 V 3 phases LXM15LD21M3 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	6

## Complementary

Range compatibility	Lexium 15
Maximum current Irms	11.03 A
Torque constant	0.36 N.m/A at 120 °C
Back emf constant	23.4 V/krpm at 120 °C
Stator resistance	2.77 Ohm at 20 °C
Stator inductance	6.16 mH at 20 °C
Stator electrical time constant	2.22 ms at 20 °C

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<b>Maximum radial force Fr</b>	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	

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<b>Maximum axial force Fa</b>	0.3 x Fr
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<b>Net weight</b>	1.66 kg
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## 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