

# Product datasheet

Specifications

## Motors



AC servo motor BDH - 1.5 N.m -  
8000 rpm - key shaft - with brake -  
IP67

BDH0702H31F2A

⚠ Discontinued on: 8 Jul 2022

⚠ Discontinued

EAN Code: 3389118172746

## Main

|                           |  |
|---------------------------|--|
| Product or component type | AC servo motors  |
| Component name            | BDH  |
| Continuous stall torque   | 1.5 N.m for LXM15LD21M3 single phase<br>2.1 N.m for LXM15LD21M3 3 phases                     |
| Peak stall torque         | 3.4 N.m for LXM15LD21M3 at 230 V single phase<br>5.36 N.m for LXM15LD21M3 at 230 V 3 phases  |
| Nominal output power      | 700 W for LXM15LD21M3 at 230 V single phase<br>900 W for LXM15LD21M3 at 230 V 3 phases       |
| Nominal torque            | 1.3 N.m for LXM15LD21M3 at 230 V 3 phases<br>1.56 N.m for LXM15LD21M3 at 230 V single phase  |
| Nominal speed             | 4500 rpm for LXM15LD21M3 at 230 V single phase<br>6500 rpm for LXM15LD21M3 at 230 V 3 phases |
| Maximum mechanical speed  | 8000 rpm   |
| Product compatibility     | LXM15LD21M3 at 230 V 3 phases<br>LXM15LD21M3 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           | 8  |

## Complementary

|                                 |                       |
|---------------------------------|-----------------------|
| Range compatibility             | Lexium 15             |
| Maximum current Irms            | 15.56 A               |
| Torque constant                 | 0.39 N.m/A at 120 °C  |
| Back emf constant               | 24.8 V/krpm at 120 °C |
| Stator resistance               | 1.64 Ohm at 20 °C     |
| Stator inductance               | 3.55 mH at 20 °C      |
| Stator electrical time constant | 2.16 ms at 20 °C      |

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|                                |  |
|--------------------------------|--|
| <b>Maximum radial force Fr</b> | 150 N at 6000 rpm<br>165 N at 5000 rpm<br>180 N at 4000 rpm<br>200 N at 3000 rpm<br>240 N at 2000 rpm<br>300 N at 1000 rpm |
| <b>Maximum axial force Fa</b>  | 0.3 x Fr   |
| <b>Net weight</b>              | 2.23 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