

Product datasheet

Specifications

Motors



AC servo motor BDH - 1.13 N.m - 8000 rpm - key shaft - with brake - IP67

BDH0583C31F2A

⚠ Discontinued on: 8 Jul 2022

⚠ Discontinued

EAN Code: 3389118170339

Main

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|---------------------------|--|
| Product or component type | AC servo motors |
| Component name | BDH |
| Continuous stall torque | 1.13 N.m for LXM15LU60N4 3 phases |
| Peak stall torque | 3.2 N.m for LXM15LU60N4 at 230 V 3 phases 3.2 N.m for LXM15LU60N4 at 400 V 3 phases 3.2 N.m for LXM15LU60N4 at 480 V 3 phases |
| Nominal output power | 250 W for LXM15LU60N4 at 230 V 3 phases 450 W for LXM15LU60N4 at 400 V 3 phases 520 W for LXM15LU60N4 at 480 V 3 phases |
| Nominal torque | 0.82 N.m for LXM15LU60N4 at 480 V 3 phases 0.87 N.m for LXM15LU60N4 at 400 V 3 phases 1 N.m for LXM15LU60N4 at 230 V 3 phases |
| Nominal speed | 2500 rpm for LXM15LU60N4 at 230 V 3 phases 5000 rpm for LXM15LU60N4 at 400 V 3 phases 6000 rpm for LXM15LU60N4 at 480 V 3 phases |
| Maximum mechanical speed | 8000 rpm |
| Product compatibility | LXM15LU60N4 at 230 V 3 phases LXM15LU60N4 at 400 V 3 phases LXM15LU60N4 at 480 V 3 phases |
| 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

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|----------------------|-----------------------|
| Range compatibility | Lexium 15 |
| Maximum current Irms | 3.95 A |
| Torque constant | 0.8 N.m/A at 120 °C |
| Back emf constant | 51.8 V/krpm at 120 °C |
| Stator resistance | 20.3 Ohm at 20 °C |
| Stator inductance | 40.7 mH at 20 °C |

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| Stator electrical time constant | 2 ms at 20 °C |
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| 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 |
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| Maximum axial force Fa | 0.3 x Fr |
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| Net weight | 1.38 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