

BRH0854M11F1A

AC servo motor BRH - 5.3 N.m - 6000 rpm -
key shaft - with brake- IP41

Main

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|-----------------------------|--|
| Product or component type | Motion servo motors |
| Component name | BRH |
| Continuous stall torque | 5.3 N.m |
| Peak stall torque | 9.2 N.m for LXM05AD17M3X 9.2 N.m for LXM05BD17M3X 9.2 N.m for LXM05CD17M3X 14.5 N.m for LXM05AD34N4 14.5 N.m for LXM05BD34N4 14.5 N.m for LXM05CD34N4 15.8 N.m for LXM05AD28M2 15.8 N.m for LXM05BD28M2 15.8 N.m for LXM05CD28M2 |
| Nominal output power | 1250 W for LXM05BD28M2 1250 W for LXM05CD17M3X 1250 W for LXM05CD28M2 1250 W for LXM05AD17M3X 1250 W for LXM05AD28M2 1250 W for LXM05BD17M3X 1400 W for LXM05BD34N4 1400 W for LXM05CD34N4 1400 W for LXM05AD34N4 |
| Nominal speed | 3000 rpm for LXM05AD17M3X 3000 rpm for LXM05AD28M2 3000 rpm for LXM05BD17M3X 3000 rpm for LXM05BD28M2 3000 rpm for LXM05CD17M3X 3000 rpm for LXM05CD28M2 6000 rpm for LXM05AD34N4 6000 rpm for LXM05BD34N4 6000 rpm for LXM05CD34N4 |
| Maximum mechanical speed | 6000 rpm |
| Product compatibility | LXM05AD17M3X at 230 V 3 phases LXM05AD28M2 at 230 V single phase LXM05AD34N4 at 400/480 V 3 phases LXM05BD17M3X at 230 V 3 phases LXM05BD28M2 at 230 V single phase LXM05BD34N4 at 400/480 V 3 phases LXM05CD17M3X at 230 V 3 phases LXM05CD28M2 at 230 V single phase LXM05CD34N4 at 400/480 V 3 phases |
| Shaft end | Keyed |
| IP degree of protection | IP41 |
| Encoder type | Single turn SinCos Hiperface |
| Encoder feedback resolution | 131072 points/turn |
| Holding brake | With |
| Mounting support | International standard flange |
| Electrical connection | Straight connectors |
| Number of poles | 10 |

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Complementary

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|---------------------------------|--|
| Range compatibility | Lexium 05 |
| Switching frequency | 8 kHz |
| Nominal torque | 2.2 N.m for LXM05AD34N4 2.2 N.m for LXM05BD34N4 2.2 N.m for LXM05CD34N4 4 N.m for LXM05AD17M3X 4 N.m for LXM05AD28M2 4 N.m for LXM05BD17M3X 4 N.m for LXM05BD28M2 4 N.m for LXM05CD17M3X 4 N.m for LXM05CD28M2 |
| Maximum current Irms | 11 A for LXM05AD17M3X 11 A for LXM05BD17M3X 11 A for LXM05CD17M3X 18 A for LXM05AD34N4 18 A for LXM05BD34N4 18 A for LXM05CD34N4 20 A for LXM05AD28M2 20 A for LXM05BD28M2 20 A for LXM05CD28M2 |
| Torque constant | 0.86 N.m/A rms at 120 °C |
| Back emf constant | 55.3 V rms/krpm at 120 °C |
| Rotor inertia | 3.9 kg.cm ² without brake 4.44 kg.cm ² with brake |
| Stator resistance | 1.4 Ohm |
| Stator inductance | 5.7 mH |
| Stator electrical time constant | 4.2 ms |
| Maximum radial force Fr | 230 N at 6000 rpm 234 N at 5000 rpm 241 N at 4000 rpm 248 N at 3000 rpm 256 N at 2000 rpm 300 N at 1000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Product weight | 6.1 kg |

Environment

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|--------------------------|-------------------|
| RoHS EUR conformity date | 4Q2009 |
| RoHS EUR status | Will be compliant |