

BRH1102P21F2A

AC servo motors BRH - 9 N.m - 6000 rpm -
untapped shaft - with brake - IP56

Main

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|-----------------------------|--|
| Product or component type | Motion servo motors |
| Component name | BRH |
| Continuous stall torque | 9 N.m |
| Peak stall torque | 16.7 N.m for LXM05AD34N4 16.7 N.m for LXM05BD34N4 16.7 N.m for LXM05CD34N4 18.4 N.m for LXM05AD28M2 18.4 N.m for LXM05BD28M2 18.4 N.m for LXM05CD28M2 26 N.m for LXM05AD42M3X 26 N.m for LXM05BD42M3X 26 N.m for LXM05CD42M3X |
| Nominal output power | 1250 W for LXM05BD28M2 1250 W for LXM05BD42M3X 1250 W for LXM05CD28M2 1250 W for LXM05CD42M3X 1250 W for LXM05AD28M2 1250 W for LXM05AD42M3X 2150 W for LXM05CD34N4 2150 W for LXM05AD34N4 2150 W for LXM05BD34N4 |
| Nominal speed | 1500 rpm for LXM05AD28M2 1500 rpm for LXM05AD42M3X 1500 rpm for LXM05BD28M2 1500 rpm for LXM05BD42M3X 1500 rpm for LXM05CD28M2 1500 rpm for LXM05CD42M3X 4500 rpm for LXM05AD34N4 4500 rpm for LXM05BD34N4 4500 rpm for LXM05CD34N4 |
| Maximum mechanical speed | 6000 rpm |
| Product compatibility | LXM05AD28M2 at 230 V single phase LXM05AD34N4 at 400/480 V 3 phases LXM05AD42M3X at 230 V 3 phases LXM05BD28M2 at 230 V single phase LXM05BD34N4 at 400/480 V 3 phases LXM05BD42M3X at 230 V 3 phases LXM05CD28M2 at 230 V single phase LXM05CD34N4 at 400/480 V 3 phases LXM05CD42M3X at 230 V 3 phases |
| Shaft end | Untapped |
| IP degree of protection | IP56 |
| Encoder type | Single turn SinCos Hiperface |
| Encoder feedback resolution | 131072 points/turn |
| Holding brake | With |
| Mounting support | International standard flange |
| Electrical connection | Rotatable right-angled connectors |
| Number of poles | 10 |

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Complementary

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|---------------------------------|---|
| Range compatibility | Lexium 05 |
| Switching frequency | 8 kHz |
| Nominal torque | 4.58 N.m for LXM05AD34N4 4.58 N.m for LXM05BD34N4 4.58 N.m for LXM05CD34N4 7.83 N.m for LXM05AD28M2 7.83 N.m for LXM05AD42M3X 7.83 N.m for LXM05BD28M2 7.83 N.m for LXM05BD42M3X 7.83 N.m for LXM05CD28M2 7.83 N.m for LXM05CD42M3X |
| Maximum current Irms | 18 A for LXM05AD34N4 18 A for LXM05BD34N4 18 A for LXM05CD34N4 20 A for LXM05AD28M2 20 A for LXM05BD28M2 20 A for LXM05CD28M2 30 A for LXM05AD42M3X 30 A for LXM05BD42M3X 30 A for LXM05CD42M3X |
| Torque constant | 0.96 N.m/A rms at 120 °C |
| Back emf constant | 62.1 V rms/krpm at 120 °C |
| Rotor inertia | 8.8 kg.cm ² without brake 10.1 kg.cm ² with brake |
| Stator resistance | 0.7 Ohm |
| Stator inductance | 4.9 mH |
| Stator electrical time constant | 7.1 ms |
| Maximum radial force Fr | 731 N at 6000 rpm 762 N at 5000 rpm 800 N at 4000 rpm 811 N at 3000 rpm 824 N at 2000 rpm 848 N at 1000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Product weight | 7.7 kg |

Environment

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