

# BRH0571P12A1A

AC servo motors BRH - 0.46 N.m - 6000 rpm -  
keyed shaft - without brake - IP41

## Main

|                             |                                                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Product or component type   | Motion servo motors                                                                                                                              |
| Component name              | BRH                                                                                                                                              |
| Continuous stall torque     | 0.46 N.m                                                                                                                                         |
| Peak stall torque           | 1.26 N.m for LXM05CU70M2<br>1.39 N.m for LXM05AD14N4<br>1.39 N.m for LXM05BD14N4<br>1.39 N.m for LXM05CD14N4                                     |
| Nominal output power        | 135 W for LXM05CU70M2<br>260 W for LXM05AD14N4<br>260 W for LXM05BD14N4<br>260 W for LXM05CD14N4                                                 |
| Nominal speed               | 3000 rpm for LXM05CU70M2<br>6000 rpm for LXM05AD14N4<br>6000 rpm for LXM05BD14N4<br>6000 rpm for LXM05CD14N4                                     |
| Maximum mechanical speed    | 8000 rpm                                                                                                                                         |
| Product compatibility       | LXM05AD14N4 at 400/480 V 3 phases<br>LXM05BD14N4 at 400/480 V 3 phases<br>LXM05CD14N4 at 400/480 V 3 phases<br>LXM05CU70M2 at 230 V single phase |
| Shaft end                   | Keyed                                                                                                                                            |
| IP degree of protection     | IP41                                                                                                                                             |
| Encoder type                | Multiturn SinCos Hiperface                                                                                                                       |
| Encoder feedback resolution | 131072 points/turn x 4096 turns                                                                                                                  |
| Holding brake               | Without                                                                                                                                          |
| Mounting support            | International standard flange                                                                                                                    |
| Electrical connection       | Straight connectors                                                                                                                              |
| Number of poles             | 10                                                                                                                                               |

## Complementary

|                                 |                                                                                                              |
|---------------------------------|--------------------------------------------------------------------------------------------------------------|
| Range compatibility             | Lexium 05                                                                                                    |
| Switching frequency             | 8 kHz                                                                                                        |
| Nominal torque                  | 0.41 N.m for LXM05AD14N4<br>0.41 N.m for LXM05BD14N4<br>0.41 N.m for LXM05CD14N4<br>0.43 N.m for LXM05CU70M2 |
| Maximum current Irms            | 4.3 A for LXM05CU70M2<br>5.4 A for LXM05CD14N4<br>5.4 A for LXM05BD14N4<br>5.4 A for LXM05AD14N4             |
| Torque constant                 | 0.34 N.m/A rms at 120 °C                                                                                     |
| Back emf constant               | 20.9 V rms/krpm at 120 °C                                                                                    |
| Rotor inertia                   | 0.18 kg.cm <sup>2</sup> without brake<br>0.18 kg.cm <sup>2</sup> with brake                                  |
| Stator resistance               | 12.7 Ohm                                                                                                     |
| Stator inductance               | 24.1 mH                                                                                                      |
| Stator electrical time constant | 1.9 ms                                                                                                       |

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|                         |                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Maximum radial force Fr | 72 N at 6000 rpm<br>73 N at 5000 rpm<br>74 N at 4000 rpm<br>76 N at 3000 rpm<br>81 N at 2000 rpm<br>109 N at 1000 rpm |
| Maximum axial force Fa  | 0.2 x Fr                                                                                                              |
| Product weight          | 1.1 kg                                                                                                                |

## Environment

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