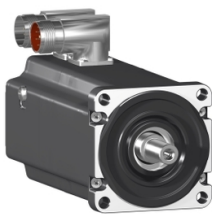


# Product datasheet

Specifications



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

BRH0854M01F2A

⚠ Discontinued on: 8 Jul 2022

⚠ Discontinued

EAN Code: 3389118360846

### Main

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                         |                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical connection   | Rotatable right-angled connectors                                                                                                                                                                                                      |
| Nominal torque          | 2.2 N.m for LXM05AD34N4<br>2.2 N.m for LXM05BD34N4<br>2.2 N.m for LXM05CD34N4<br>4 N.m for LXM05AD17M3X<br>4 N.m for LXM05AD28M2<br>4 N.m for LXM05BD17M3X<br>4 N.m for LXM05BD28M2<br>4 N.m for LXM05CD17M3X<br>4 N.m for LXM05CD28M2 |
| Number of poles         | 10                                                                                                                                                                                                                                     |
| Maximum radial force Fr | 230 N at 6000 rpm<br>234 N at 5000 rpm<br>241 N at 4000 rpm<br>248 N at 3000 rpm<br>256 N at 2000 rpm<br>300 N at 1000 rpm                                                                                                             |

## Complementary

|                        |                                                                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range compatibility    | Lexium 05                                                                                                                                                                                                               |
| Switching frequency    | 8 kHz                                                                                                                                                                                                                   |
| Maximum current Irms   | 11 A for LXM05AD17M3X<br>11 A for LXM05BD17M3X<br>11 A for LXM05CD17M3X<br>18 A for LXM05AD34N4<br>18 A for LXM05BD34N4<br>18 A for LXM05CD34N4<br>20 A for LXM05AD28M2<br>20 A for LXM05BD28M2<br>20 A for LXM05CD28M2 |
| Torque constant        | 0.86 N.m/A at 120 °C                                                                                                                                                                                                    |
| Back emf constant      | 55.3 V/krpm at 120 °C                                                                                                                                                                                                   |
| Rotor inertia          | 3.9 kg.cm² without brake<br>4.44 kg.cm² with brake                                                                                                                                                                      |
| Stator resistance      | 1.4 Ohm                                                                                                                                                                                                                 |
| Stator inductance      | 5.7 mH                                                                                                                                                                                                                  |
| Maximum axial force Fa | 0.2 x Fr                                                                                                                                                                                                                |
| Net weight             | 6.1 kg                                                                                                                                                                                                                  |



## 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 |