



## Main

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product or component type | Servo motor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Maximum mechanical speed  | 4000 rpm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Continuous stall torque   | 19.5 N.M for LXM15MD40N4, 400 V, three phase<br>19.5 N.M for LXM15MD40N4, 480 V, three phase<br>14.9 N.M for LXM15LD28M3, 230 V, three phase<br>14.9 N.M for LXM15MD28N4, 230 V, three phase<br>14.9 N.M for LXM15MD28N4, 400 V, three phase<br>14.9 N.M for LXM15MD28N4, 480 V, three phase<br>19.5 N.M for LXM15MD56N4, 230 V, three phase<br>19.5 N.M for LXM15MD56N4, 400 V, three phase<br>19.5 N.M for LXM15MD56N4, 480 V, three phase<br>19.2 N.M for LXM05AD42M3X, 200...240 V, three phase<br>19.2 N.M for LXM05AD57N4, 380...480 V, three phase<br>19.2 N.M for LXM05BD42M3X, 200...240 V, three phase<br>19.2 N.M for LXM05BD57N4, 380...480 V, three phase<br>19.2 N.M for LXM05CD42M3X, 200...240 V, three phase<br>19.2 N.m for LXM05CD57N4, 380...480 V, three phase                                                        |
| Peak stall torque         | 28.71 N.M for LXM15LD28M3, 230 V, three phase<br>28.71 N.M for LXM15MD28N4, 230 V, three phase<br>28.71 N.M for LXM15MD28N4, 400 V, three phase<br>28.71 N.M for LXM15MD28N4, 480 V, three phase<br>39.3 N.M for LXM15MD40N4, 230 V, three phase<br>39.3 N.M for LXM15MD40N4, 400 V, three phase<br>39.3 N.M for LXM15MD40N4, 480 V, three phase<br>47.5 N.M for LXM15MD56N4, 230 V, three phase<br>47.5 N.M for LXM15MD56N4, 400 V, three phase<br>47.5 N.M for LXM15MD56N4, 480 V, three phase<br>41.94 N.M for LXM05AD42M3X, 200...240 V, three phase<br>47.5 N.M for LXM05AD57N4, 380...480 V, three phase<br>41.94 N.M for LXM05BD42M3X, 200...240 V, three phase<br>47.5 N.M for LXM05BD57N4, 380...480 V, three phase<br>41.94 N.M for LXM05CD42M3X, 200...240 V, three phase<br>47.5 N.m for LXM05CD57N4, 380...480 V, three phase |
| Nominal output power      | 2350 W for LXM05AD42M3X, 200...240 V, three phase<br>2350 W for LXM05BD42M3X, 200...240 V, three phase<br>2350 W for LXM05CD42M3X, 200...240 V, three phase<br>2350 W for LXM15LD28M3, 230 V, three phase<br>2350 W for LXM15MD28N4, 230 V, three phase<br>2350 W for LXM15MD40N4, 230 V, three phase<br>2350 W for LXM15MD56N4, 230 V, three phase<br>3350 W for LXM15MD28N4, 480 V, three phase<br>3350 W for LXM15MD40N4, 480 V, three phase<br>3400 W for LXM05AD57N4, 380...480 V, three phase<br>3400 W for LXM05BD57N4, 380...480 V, three phase<br>3400 W for LXM05CD57N4, 380...480 V, three phase<br>3400 W for LXM15MD28N4, 400 V, three phase<br>3400 W for LXM15MD40N4, 400 V, three phase<br>3400 W for LXM15MD56N4, 400 V, three phase<br>3400 W for LXM15MD56N4, 480 V, three phase                                        |

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|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal torque            | 8 N.M for LXM15MD40N4, 480 V, three phase<br>10.8 N.M for LXM05AD57N4, 380...480 V, three phase<br>10.8 N.M for LXM05BD57N4, 380...480 V, three phase<br>10.8 N.M for LXM05CD57N4, 380...480 V, three phase<br>10.8 N.M for LXM15MD28N4, 400 V, three phase<br>10.8 N.M for LXM15MD40N4, 400 V, three phase<br>10.8 N.M for LXM15MD56N4, 400 V, three phase<br>10.8 N.M for LXM15MD56N4, 480 V, three phase<br>15 N.M for LXM05AD42M3X, 200...240 V, three phase<br>15 N.M for LXM05BD42M3X, 200...240 V, three phase<br>15 N.M for LXM05CD42M3X, 200...240 V, three phase<br>15 N.M for LXM15LD28M3, 230 V, three phase<br>15 N.M for LXM15MD28N4, 230 V, three phase<br>15 N.M for LXM15MD40N4, 230 V, three phase<br>15 N.M for LXM15MD56N4, 230 V, three phase<br>8 N.m for LXM15MD28N4, 480 V, three phase                     |
| Nominal speed             | 1500 rpm for LXM05AD42M3X, 200...240 V, three phase<br>1500 rpm for LXM05BD42M3X, 200...240 V, three phase<br>1500 rpm for LXM05CD42M3X, 200...240 V, three phase<br>1500 rpm for LXM15MD28N4, 230 V, three phase<br>1500 rpm for LXM15MD40N4, 230 V, three phase<br>3000 rpm for LXM05AD57N4, 380...480 V, three phase<br>3000 rpm for LXM05BD57N4, 380...480 V, three phase<br>3000 rpm for LXM05CD57N4, 380...480 V, three phase<br>3000 rpm for LXM15MD28N4, 400 V, three phase<br>3000 rpm for LXM15MD40N4, 400 V, three phase<br>4000 rpm for LXM15MD28N4, 480 V, three phase<br>1500 rpm for LXM15LD28M3, 230 V, three phase<br>1500 rpm for LXM15MD56N4, 230 V, three phase<br>3000 rpm for LXM15MD56N4, 400 V, three phase<br>3000 rpm for LXM15MD56N4, 480 V, three phase<br>4000 rpm for LXM15MD40N4, 480 V, three phase |
| Product compatibility     | LXM05AD42M3X at 200...240 V three phase<br>LXM05BD42M3X at 200...240 V three phase<br>LXM05CD42M3X at 200...240 V three phase<br>LXM15LD28M3 at 230 V three phase<br>LXM15MD28N4 at 400 V three phase<br>LXM15MD28N4 at 480 V three phase<br>LXM15MD40N4 at 400 V three phase<br>LXM15MD40N4 at 480 V three phase<br>LXM05AD57N4 at 380...480 V three phase<br>LXM05BD57N4 at 380...480 V three phase<br>LXM05CD57N4 at 380...480 V three phase<br>LXM15MD28N4 at 230 V three phase<br>LXM15MD40N4 at 230 V three phase<br>LXM15MD56N4 at 230 V three phase<br>LXM15MD56N4 at 400 V three phase<br>LXM15MD56N4 at 480 V three phase                                                                                                                                                                                                 |
| Shaft end                 | Untapped                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| IP degree of protection   | IP65 standard<br>IP67 with IP67 kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Speed feedback resolution | 131072 points/turn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Holding brake             | Without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Mounting support          | International standard flange                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Electrical connection     | Straight connectors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Complementary

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| Range compatibility                   | Lexium 15<br>Lexium 05                                         |
| Supply voltage max                    | 480 V                                                          |
| Network number of phases              | Three phase                                                    |
| Continuous stall current              | 13.2 A                                                         |
| Maximum continuous power              | 4.2 W                                                          |
| Maximum permanent current             | 44.1 A                                                         |
| Second shaft                          | Without second shaft end                                       |
| Shaft diameter                        | 24 mm                                                          |
| Shaft length                          | 50 mm                                                          |
| Feedback type                         | Single turn SinCos Hiperface                                   |
| Motor flange size                     | 140 mm                                                         |
| Number of motor stacks                | 2                                                              |
| Torque constant                       | 1.47 N.m/A at 120 °C                                           |
| Back emf constant                     | 101 V/krpm at 120 °C                                           |
| Number of motor poles                 | 10                                                             |
| Rotor inertia                         | 12.68 kg.cm <sup>2</sup>                                       |
| Stator resistance                     | 0.6 Ohm at 20 °C                                               |
| Stator inductance                     | 7.4 mH at 20 °C<br>7.71 mH at 20 °C                            |
| Stator electrical time constant       | 12.33 Ms at 20 °C<br>12.85 ms at 20 °C                         |
| Maximum radial force Fr               | 1680 N at 3000 rpm<br>1930 N at 2000 rpm<br>2430 N at 1000 rpm |
| Maximum axial force Fa                | 0.2 x Fr                                                       |
| Type of cooling                       | Natural convection                                             |
| Length                                | 272.5 mm                                                       |
| Centring collar diameter              | 130 mm                                                         |
| Centring collar depth                 | 3.5 mm                                                         |
| Number of mounting holes              | 4                                                              |
| Mounting holes diameter               | 11 mm                                                          |
| Circle diameter of the mounting holes | 165 mm                                                         |
| Net weight                            | 16.6 kg                                                        |

## Packing Units

|                              |            |
|------------------------------|------------|
| Unit Type of Package 1       | PCE        |
| Number of Units in Package 1 | 1          |
| Package 1 Height             | 27.0 cm    |
| Package 1 Width              | 27.0 cm    |
| Package 1 Length             | 48.2 cm    |
| Package 1 Weight             | 11.5 kg    |
| Unit Type of Package 2       | P06        |
| Number of Units in Package 2 | 8          |
| Package 2 Height             | 77.0 cm    |
| Package 2 Width              | 80.0 cm    |
| Package 2 Length             | 60.0 cm    |
| Package 2 Weight             | 149.716 kg |