



Main

| | |
|---------------------------|---|
| Product or component type | Servo motor |
| Device short name | BSH |
| Maximum mechanical speed | 8000 Rpm |
| Continuous stall torque | 0.9 N.M for LXM05CU70M2, 200...240 V, single phase 0.9 N.M for LXM05AD10M2, 200...240 V, single phase 0.9 N.M for LXM05BD10M2, 200...240 V, single phase 0.9 N.M for LXM05CD10M2, 200...240 V, single phase 0.9 N.M for LXM15LU60N4, 480 V, three phase 0.9 N.M for LXM15LU60N4, 400 V, three phase 0.9 N.M for LXM05AD10M3X, 200...240 V, three phase 0.9 N.M for LXM05BD10M3X, 200...240 V, three phase 0.9 N.M for LXM05CD10M3X, 200...240 V, three phase |
| Peak stall torque | 2.3 N.M for LXM05CU70M2, 200...240 V, single phase 2.3 N.M for LXM05AD10M2, 200...240 V, single phase 2.3 N.M for LXM05BD10M2, 200...240 V, single phase 2.3 N.M for LXM05CD10M2, 200...240 V, single phase 2.25 N.M for LXM15LU60N4, 480 V, three phase 2.25 N.M for LXM15LU60N4, 400 V, three phase 2.3 N.M for LXM05AD10M3X, 200...240 V, three phase 2.3 N.M for LXM05BD10M3X, 200...240 V, three phase 2.3 N.M for LXM05CD10M3X, 200...240 V, three phase |
| Nominal output power | 130 W for LXM05AD10M2, 200...240 V, single phase 130 W for LXM05BD10M2, 200...240 V, single phase 130 W for LXM05CD10M2, 200...240 V, single phase 130 W for LXM05CU70M2, 200...240 V, single phase 130 W for LXM05AD10M3X, 200...240 V, three phase 130 W for LXM05BD10M3X, 200...240 V, three phase 130 W for LXM05CD10M3X, 200...240 V, three phase 320 W for LXM15LU60N4, 400 V, three phase 400 W for LXM15LU60N4, 480 V, three phase |
| Nominal torque | 0.85 N.M for LXM05AD10M2, 200...240 V, single phase 0.85 N.M for LXM05BD10M2, 200...240 V, single phase 0.85 N.M for LXM05CD10M2, 200...240 V, single phase 0.85 N.M for LXM05CU70M2, 200...240 V, single phase 0.77 N.M for LXM15LU60N4, 400 V, three phase 0.77 N.M for LXM15LU60N4, 480 V, three phase 0.85 N.M for LXM05AD10M3X, 200...240 V, three phase 0.85 N.M for LXM05BD10M3X, 200...240 V, three phase 0.85 N.M for LXM05CD10M3X, 200...240 V, three phase |
| Nominal speed | 1500 rpm for LXM05AD10M2, 200...240 V, single phase 1500 rpm for LXM05BD10M2, 200...240 V, single phase 1500 rpm for LXM05CD10M2, 200...240 V, single phase 1500 rpm for LXM05CU70M2, 200...240 V, single phase 1500 rpm for LXM05AD10M3X, 200...240 V, three phase 1500 rpm for LXM05BD10M3X, 200...240 V, three phase 1500 rpm for LXM05CD10M3X, 200...240 V, three phase 4000 rpm for LXM15LU60N4, 400 V, three phase 5000 rpm for LXM15LU60N4, 480 V, three phase |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| | |
|---------------------------|---|
| Product compatibility | LXM05AD10M2 at 200...240 V single phase LXM05BD10M2 at 200...240 V single phase LXM05CD10M2 at 200...240 V single phase LXM05CU70M2 at 200...240 V single phase LXM05AD10M3X at 200...240 V three phase LXM05BD10M3X at 200...240 V three phase LXM05CD10M3X at 200...240 V three phase LXM15LU60N4 at 400 V three phase LXM15LU60N4 at 480 V three phase |
| Shaft end | Keyed |
| IP degree of protection | IP65 standard IP67 with IP67 kit |
| Speed feedback resolution | 131072 points/turn |
| Holding brake | With |
| Mounting support | International standard flange |
| Electrical connection | Straight connectors |

Complementary

| | |
|---------------------------------|---|
| Range compatibility | Lexium 05 Lexium 15 |
| [Us] rated supply voltage | 480 V |
| Network number of phases | Three phase |
| Continuous stall current | 0.6 A |
| Continuous power | 0.67 W |
| Maximum current Irms | 2.4 A for LXM15LU60N4 2.6 A for LXM05CU70M2 2.6 A for LXM05AD10M2 2.6 A for LXM05AD10M3X 2.6 A for LXM05BD10M2 2.6 A for LXM05BD10M3X 2.6 A for LXM05CD10M2 2.6 A for LXM05CD10M3X |
| Maximum permanent current | 2.6 A |
| Switching frequency | 4 kHz |
| Second shaft | Without second shaft end |
| Shaft diameter | 9 Mm |
| Shaft length | 20 Mm |
| Key width | 12 Mm |
| Feedback type | Single turn SinCos Hiperface |
| Holding torque | 0.8 N.M holding brake |
| Motor flange size | 55 Mm |
| Number of motor stacks | 2 |
| Torque constant | 1.125 N.M/A at 120 °C |
| Back emf constant | 74 V/Krpm at 120 °C |
| Number of motor poles | 6 |
| Rotor inertia | 0.1613 Kg.Cm ² |
| Stator resistance | 60.2 Ohm at 20 °C 62 Ohm at 20 °C |
| Stator inductance | 122 MH at 20 °C 76.8 MH at 20 °C |
| Stator electrical time constant | 1.24 Ms at 20 °C 2.03 Ms at 20 °C |
| Maximum radial force Fr | 190 N at 7000 rpm 190 N at 8000 rpm 200 N at 6000 rpm 220 N at 5000 rpm 230 N at 4000 rpm 260 N at 3000 rpm 290 N at 2000 rpm 370 N at 1000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Brake pull-in power | 10 W |
| Type of cooling | Natural convection |
| Length | 181 Mm |

| | |
|---------------------------------------|--------|
| Centring collar diameter | 40 Mm |
| Centring collar depth | 2 Mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 5.5 Mm |
| Circle diameter of the mounting holes | 63 Mm |
| Net weight | 1.6 Kg |

Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | No need of specific recycling operations |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Product Life Status : **Commercialised**