



Main

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|---------------------------|--|
| Product or component type | Servo motor |
| Device short name | BSH |
| Maximum mechanical speed | 9000 rpm |
| Continuous stall torque | 0.8 N.m for LXM32.U60N4 1.5 A at 400 V three phase 0.8 N.m for LXM32.U60N4 1.5 A at 480 V three phase 0.9 N.m for LXM05CU70M2 at 200...240 V single phase 0.9 N.m for LXM05AD10M2 at 200...240 V single phase 0.9 N.m for LXM05BD10M2 at 200...240 V single phase 0.9 N.m for LXM05CD10M2 at 200...240 V single phase 0.9 N.m for LXM15LD13M3 at 230 V single phase 0.9 N.m for LXM05AD10M3X at 200...240 V three phase 0.9 N.m for LXM05BD10M3X at 200...240 V three phase 0.9 N.m for LXM05CD10M3X at 200...240 V three phase 0.9 N.m for LXM15LD13M3 at 230 V three phase 0.9 N.m for LXM15LU60N4 at 230 V three phase 0.9 N.m for LXM05AD14N4 at 380...480 V three phase 0.9 N.m for LXM05BD14N4 at 380...480 V three phase 0.9 N.m for LXM05CD14N4 at 380...480 V three phase |
| Peak stall torque | 2.17 N.m for LXM05CU70M2 at 200...240 V single phase 2.7 N.m for LXM05AD10M2 at 200...240 V single phase 2.7 N.m for LXM05BD10M2 at 200...240 V single phase 2.7 N.m for LXM05CD10M2 at 200...240 V single phase 2.7 N.m for LXM05AD10M3X at 200...240 V three phase 2.7 N.m for LXM05AD14N4 at 380...480 V three phase 2.7 N.m for LXM05BD10M3X at 200...240 V three phase 2.7 N.m for LXM05BD14N4 at 380...480 V three phase 2.7 N.m for LXM05CD10M3X at 200...240 V three phase 2.7 N.m for LXM05CD14N4 at 380...480 V three phase 2.5 N.m for LXM32.U60N4 1.5 A at 400 V three phase 2.5 N.m for LXM32.U60N4 1.5 A at 480 V three phase 2.5 N.m for LXM15LD13M3 at 230 V single phase 2.5 N.m for LXM15LD13M3 at 230 V three phase 2.26 N.m for LXM15LU60N4 at 230 V three phase |
| Nominal output power | 400 W for LXM32.U60N4 1.5 A at 400 V three phase 400 W for LXM32.U60N4 1.5 A at 480 V three phase 250 W for LXM05AD10M2 at 200...240 V single phase 250 W for LXM05BD10M2 at 200...240 V single phase |

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

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|---------------------------|--|
| | <p>250 W for LXM05CD10M2 at 200...240 V single phase 250 W for LXM05CU70M2 at 200...240 V single phase 310 W for LXM15LD13M3 at 230 V single phase 250 W for LXM05AD10M3X at 200...240 V three phase 250 W for LXM05AD14N4 at 380...480 V three phase 250 W for LXM05BD10M3X at 200...240 V three phase 250 W for LXM05BD14N4 at 380...480 V three phase 250 W for LXM05CD10M3X at 200...240 V three phase 250 W for LXM05CD14N4 at 380...480 V three phase 310 W for LXM15LD13M3 at 230 V three phase 310 W for LXM15LU60N4 at 230 V three phase</p> |
| Nominal torque | <p>0.65 N.m for LXM32.U60N4 1.5 A at 400 V three phase 0.65 N.m for LXM32.U60N4 1.5 A at 480 V three phase 0.75 N.m for LXM15LD13M3 at 230 V single phase 2.17 N.m for LXM05CU70M2 at 200...240 V single phase 2.7 N.m for LXM05AD10M2 at 200...240 V single phase 2.7 N.m for LXM05BD10M2 at 200...240 V single phase 2.7 N.m for LXM05CD10M2 at 200...240 V single phase 0.75 N.m for LXM15LD13M3 at 230 V three phase 0.75 N.m for LXM15LU60N4 at 230 V three phase 2.7 N.m for LXM05AD10M3X at 200...240 V three phase 2.7 N.m for LXM05AD14N4 at 380...480 V three phase 2.7 N.m for LXM05BD10M3X at 200...240 V three phase 2.7 N.m for LXM05BD14N4 at 380...480 V three phase 2.7 N.m for LXM05CD10M3X at 200...240 V three phase 2.7 N.m for LXM05CD14N4 at 380...480 V three phase</p> |
| Nominal speed | <p>6000 rpm for LXM32.U60N4 1.5 A at 480 V three phase 6000 rpm for LXM32.U60N4 1.5 A at 400 V three phase 3000 rpm for LXM05AD10M2 at 200...240 V single phase 3000 rpm for LXM05BD10M2 at 200...240 V single phase 3000 rpm for LXM05CD10M2 at 200...240 V single phase 3000 rpm for LXM05CU70M2 at 200...240 V single phase 4000 rpm for LXM15LD13M3 at 230 V single phase 4000 rpm for LXM15LU60N4 at 230 V three phase 3000 rpm for LXM05AD10M3X at 200...240 V three phase 3000 rpm for LXM05AD14N4 at 380...480 V three phase 3000 rpm for LXM05BD10M3X at 200...240 V three phase 3000 rpm for LXM05BD14N4 at 380...480 V three phase 3000 rpm for LXM05CD10M3X at 200...240 V three phase 3000 rpm for LXM05CD14N4 at 380...480 V three phase 4000 rpm for LXM15LD13M3 at 230 V three phase</p> |
| Product compatibility | <p>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 LXM15LD13M3 at 230 V single phase LXM15LU60N4 at 230 V three phase LXM32.U60N4 at 400 V three phase LXM32.U60N4 at 480 V three phase LXM05AD10M3X at 200...240 V three phase LXM05BD10M3X at 200...240 V three phase LXM05CD10M3X at 200...240 V three phase LXM15LD13M3 at 230 V three phase LXM05AD14N4 at 380...480 V three phase LXM05BD14N4 at 380...480 V three phase LXM05CD14N4 at 380...480 V three phase</p> |
| Shaft end | Untapped |
| IP degree of protection | <p>IP65 (standard) IP67 (with IP67 kit)</p> |
| Speed feedback resolution | 131072 points/turn x 4096 turns |
| Holding brake | Without |
| Mounting support | International standard flange |
| Electrical connection | Rotatable right-angled connectors |

Complementary

| | |
|---------------------|--|
| Range compatibility | <p>Lexium 05 Lexium 15 Lexium 32</p> |
| Supply voltage max | 480 V |

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|---------------------------------------|--|
| Network number of phases | Three phase |
| Continuous stall current | 1.2 A |
| Maximum continuous power | 0.67 W |
| Maximum current Irms | 4.8 A for LXM05AD10M2 4.8 A for LXM05AD10M3X 4.8 A for LXM05AD14N4 4.8 A for LXM05BD10M2 4.8 A for LXM05BD10M3X 4.8 A for LXM05BD14N4 4.8 A for LXM05CD10M2 4.8 A for LXM05CD10M3X 4.8 A for LXM05CD14N4 4.8 A for LXM05CU70M2 5.9 A for LXM15LD13M3 5.9 A for LXM15LU60N4 4.8 A for LXM32.U60N4 |
| Maximum permanent current | 4.8 A |
| Switching frequency | 8 kHz |
| Second shaft | Without second shaft end |
| Shaft diameter | 9 mm |
| Shaft length | 20 mm |
| Feedback type | Multiturn SinCos Hiperface |
| Motor flange size | 55 mm |
| Number of motor stacks | 2 |
| Torque constant | 0.7 N.m/A at 120 °C |
| Back emf constant | 40 V/krpm at 120 °C |
| Number of motor poles | 6 |
| Rotor inertia | 0.096 kg.cm ² |
| Stator resistance | 17.4 Ohm at 20 °C |
| Stator inductance | 35.3 mH at 20 °C |
| Stator electrical time constant | 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 |
| Type of cooling | Natural convection |
| Length | 154.4 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 |
| Product weight | 1.5 kg |

Offer Sustainability

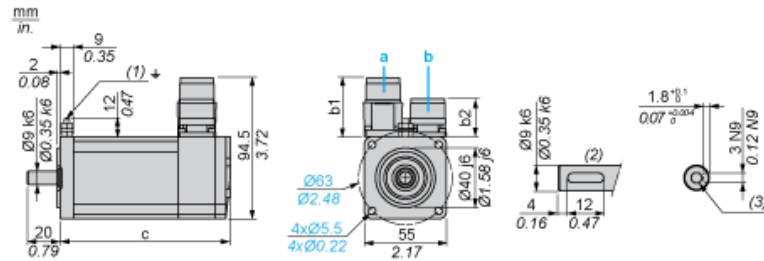
| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0850 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Need no specific recycling operations |

Contractual warranty

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

Servo Motors Dimensions

Example with Straight Connectors



- a: Power supply for servo motor brake
- b: Power supply for servo motor encoder
- (1) M4 screw
- (2) Shaft end, keyed slot (optional)
- (3) For screw M3 x 9 mm/M3 x 0.35 in.

Dimensions in mm

| Straight connectors | | Rotatable angled connectors | | c (without brake) | c (with brake) |
|---------------------|------|-----------------------------|------|-------------------|----------------|
| b | b1 | b | b1 | | |
| 39.5 | 25.5 | 39.5 | 39.5 | 154.5 | 181 |

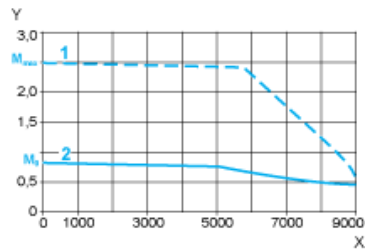
Dimensions in in.

| Straight connectors | | Rotatable angled connectors | | c (without brake) | c (with brake) |
|---------------------|------|-----------------------------|------|-------------------|----------------|
| b | b1 | b | b1 | | |
| 1.55 | 1.00 | 1.55 | 1.55 | 6.08 | 7.12 |

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32-U60N4 servo drive

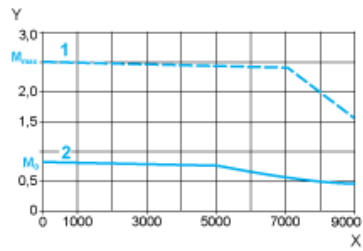


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque