

Main

| | |
|---------------------------|--|
| Product or component type | Servo motor |
| Device short name | BSH |
| Maximum mechanical speed | 6000 rpm |
| Continuous stall torque | <p>8 N.m for LXM32.D30N4 10 A at 400 V three phase</p> <p>8 N.m for LXM32.D30N4 10 A at 480 V three phase</p> <p>9.31 N.m for LXM15MD40N4 at 400 V three phase</p> <p>9.31 N.m for LXM15MD40N4 at 480 V three phase</p> <p>9.31 N.m for LXM15MD28M3 at 230 V three phase</p> <p>9.31 N.m for LXM15MD28N4 at 230 V three phase</p> <p>9.31 N.m for LXM15MD28N4 at 400 V three phase</p> <p>9.31 N.m for LXM15MD28N4 at 480 V three phase</p> <p>9.31 N.m for LXM15MD40N4 at 230 V three phase</p> <p>9.31 N.m for LXM05AD34N4 at 380...480 V three phase</p> <p>9.31 N.m for LXM05AD42M3X at 200...240 V three phase</p> <p>9.31 N.m for LXM05AD57N4 at 380...480 V three phase</p> <p>9.31 N.m for LXM05BD34N4 at 380...480 V three phase</p> <p>9.31 N.m for LXM05BD42M3X at 200...240 V three phase</p> <p>9.31 N.m for LXM05BD57N4 at 380...480 V three phase</p> <p>9.31 N.m for LXM05CD34N4 at 380...480 V three phase</p> <p>9.31 N.m for LXM05CD42M3X at 200...240 V three phase</p> <p>9.31 N.m for LXM05CD57N4 at 380...480 V three phase</p> |
| Peak stall torque | <p>37.9 N.m for LXM32.D30N4 10 A at 480 V three phase</p> <p>37.9 N.m for LXM32.D30N4 10 A at 400 V three phase</p> <p>25.7 N.m for LXM15MD28M3 at 230 V three phase</p> <p>25.7 N.m for LXM15MD28N4 at 230 V three phase</p> <p>25.7 N.m for LXM15MD28N4 at 400 V three phase</p> <p>25.7 N.m for LXM15MD28N4 at 480 V three phase</p> <p>33.83 N.m for LXM15MD40N4 at 230 V three phase</p> <p>33.83 N.m for LXM15MD40N4 at 400 V three phase</p> <p>33.83 N.m for LXM15MD40N4 at 480 V three phase</p> <p>23.47 N.m for LXM05AD34N4 at 380...480 V three phase</p> <p>35.7 N.m for LXM05AD42M3X at 200...240 V three phase</p> <p>35.7 N.m for LXM05AD57N4 at 380...480 V three phase</p> <p>23.47 N.m for LXM05BD34N4 at 380...480 V three phase</p> <p>35.7 N.m for LXM05BD42M3X at 200...240 V three phase</p> <p>35.7 N.m for LXM05BD57N4 at 380...480 V three phase</p> <p>23.47 N.m for LXM05CD34N4 at 380...480 V three phase</p> <p>35.7 N.m for LXM05CD42M3X at 200...240 V three phase</p> |

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

35.7 N.m for LXM05CD57N4 at 380...480 V three phase

Nominal output power

2600 W for LXM32.D30N4 10 A at 480 V three phase
2100 W for LXM32.D30N4 10 A at 400 V three phase
1300 W for LXM05AD42M3X at 200...240 V three phase
1300 W for LXM05BD42M3X at 200...240 V three phase
1300 W for LXM05CD42M3X at 200...240 V three phase
1300 W for LXM15MD28M3 at 230 V three phase
1300 W for LXM15MD28N4 at 230 V three phase
1300 W for LXM15MD40N4 at 230 V three phase
2200 W for LXM05AD34N4 at 380...480 V three phase
2200 W for LXM05AD57N4 at 380...480 V three phase
2200 W for LXM05BD34N4 at 380...480 V three phase
2200 W for LXM05BD57N4 at 380...480 V three phase
2200 W for LXM05CD34N4 at 380...480 V three phase
2200 W for LXM05CD57N4 at 380...480 V three phase
2200 W for LXM15MD28N4 at 400 V three phase
2300 W for LXM15MD40N4 at 400 V three phase
2400 W for LXM15MD40N4 at 480 V three phase
2700 W for LXM15MD28N4 at 480 V three phase

Nominal torque

8.3 N.m for LXM32.D30N4 10 A at 400 V three phase
8.3 N.m for LXM32.D30N4 10 A at 480 V three phase
6.5 N.m for LXM15MD28N4 at 480 V three phase
6.69 N.m for LXM15MD40N4 at 480 V three phase
7 N.m for LXM15MD28N4 at 400 V three phase
7.1 N.m for LXM05AD34N4 at 380...480 V three phase
7.1 N.m for LXM05AD57N4 at 380...480 V three phase
7.1 N.m for LXM05BD34N4 at 380...480 V three phase
7.1 N.m for LXM05BD57N4 at 380...480 V three phase
7.1 N.m for LXM05CD34N4 at 380...480 V three phase
7.1 N.m for LXM05CD57N4 at 380...480 V three phase
7.17 N.m for LXM15MD40N4 at 400 V three phase
8.18 N.m for LXM15MD40N4 at 230 V three phase
8.22 N.m for LXM05AD42M3X at 200...240 V three phase
8.22 N.m for LXM05BD42M3X at 200...240 V three phase
8.22 N.m for LXM05CD42M3X at 200...240 V three phase
8.22 N.m for LXM15LD28M3 at 230 V three phase
8.22 N.m for LXM15MD28N4 at 230 V three phase

Nominal speed

3000 rpm for LXM32.D30N4 10 A at 480 V three phase
2500 rpm for LXM32.D30N4 10 A at 400 V three phase
1500 rpm for LXM05AD42M3X at 200...240 V three phase
1500 rpm for LXM05BD42M3X at 200...240 V three phase
1500 rpm for LXM05CD42M3X at 200...240 V three phase
3000 rpm for LXM05AD34N4 at 380...480 V three phase
3000 rpm for LXM05BD34N4 at 380...480 V three phase
3000 rpm for LXM05CD34N4 at 380...480 V three phase
1500 rpm for LXM15MD28M3 at 230 V three phase
1500 rpm for LXM15MD28N4 at 230 V three phase
1500 rpm for LXM15MD40N4 at 230 V three phase
3000 rpm for LXM05AD57N4 at 380...480 V three phase
3000 rpm for LXM05BD57N4 at 380...480 V three phase
3000 rpm for LXM05CD57N4 at 380...480 V three phase
3000 rpm for LXM15MD28N4 at 400 V three phase
3000 rpm for LXM15MD40N4 at 400 V three phase
3500 rpm for LXM15MD40N4 at 480 V three phase
4000 rpm for LXM15MD28N4 at 480 V three phase

Product compatibility

LXM05AD42M3X at 200...240 V three phase
LXM05BD42M3X at 200...240 V three phase
LXM05CD42M3X at 200...240 V three phase
LXM05AD34N4 at 380...480 V three phase
LXM05BD34N4 at 380...480 V three phase
LXM05CD34N4 at 380...480 V three phase
LXM15MD28N4 at 400 V three phase
LXM15MD28N4 at 480 V three phase
LXM15MD40N4 at 400 V three phase
LXM15MD40N4 at 480 V three phase
LXM32.D30N4 at 400 V three phase
LXM32.D30N4 at 480 V three phase
LXM05AD57N4 at 380...480 V three phase
LXM05BD57N4 at 380...480 V three phase
LXM05CD57N4 at 380...480 V three phase
LXM15MD28M3 at 230 V three phase
LXM15MD28N4 at 230 V three phase
LXM15MD40N4 at 230 V three phase

Shaft end

Untapped

| | |
|---------------------------|---|
| 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 Lexium 32 |
| Supply voltage max | 480 V |
| Network number of phases | Three phase |
| Continuous stall current | 6.2 A |
| Maximum continuous power | 3.64 W |
| Maximum current Irms | 32.3 A for LXM05AD34N4 32.3 A for LXM05AD42M3X 32.3 A for LXM05AD57N4 32.3 A for LXM05BD34N4 32.3 A for LXM05BD42M3X 32.3 A for LXM05BD57N4 32.3 A for LXM05CD34N4 32.3 A for LXM05CD42M3X 32.3 A for LXM05CD57N4 34.8 A for LXM15LD28M3 34.8 A for LXM15MD28N4 34.8 A for LXM15MD40N4 30 A for LXM32.D30N4 |
| Maximum permanent current | 32.3 A |
| Switching frequency | 8 kHz |
| Second shaft | Without second shaft end |
| Shaft diameter | 24 mm |
| Shaft length | 50 mm |
| Feedback type | Single turn SinCos Hiperface |
| Holding torque | 12 N.m (holding brake) |
| Motor flange size | 100 mm |
| Number of motor stacks | 4 |
| Torque constant | 1.62 N.m/A at 120 °C |
| Back emf constant | 103 V/krpm at 120 °C |
| Number of motor poles | 8 |
| Rotor inertia | 5.245 kg.cm ² |
| Stator resistance | 1.81 Ohm at 20 °C |
| Stator inductance | 11.8 mH at 20 °C |
| Stator electrical time constant | 6.52 ms at 20 °C |
| Maximum radial force Fr | 1070 N at 1000 rpm 740 N at 3000 rpm 850 N at 2000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Brake pull-in power | 17 W |
| Type of cooling | Natural convection |
| Length | 307.5 mm |
| Centring collar diameter | 95 mm |
| Centring collar depth | 3.5 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 9 mm |
| Circle diameter of the mounting holes | 115 mm |
| Product weight | 9.9 kg |

Offer Sustainability

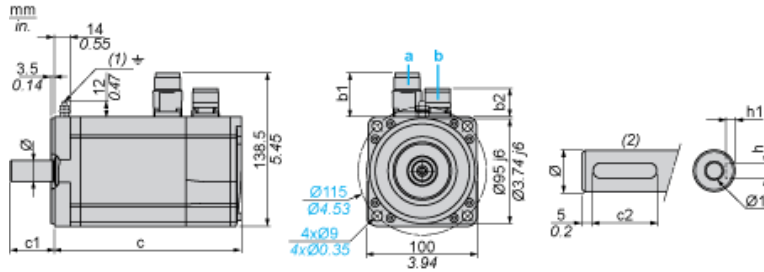
| | |
|----------------------------------|--|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product 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)

Dimensions in mm

| Straight connectors | | Rotatable angled connectors | | c (without brake) | | c (with brake) | | c1 | c2 | h | h1 | Ø | Ø1 for screws |
|---------------------|------|-----------------------------|------|-------------------|-----|----------------|----|------|--------------------------------|-------|---------|---|---------------|
| b1 | b2 | b1 | b2 | | | | | | | | | | |
| 39.5 | 25.5 | 39.5 | 39.5 | 277 | 308 | 50 | 40 | 8 N9 | 4 ^{+0.1} ₀ | 24 k6 | M8 x 19 | | |

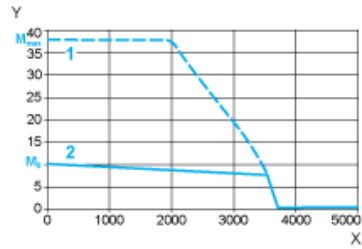
Dimensions in in.

| Straight connectors | | Rotatable angled connectors | | c (without brake) | | c (with brake) | | c1 | c2 | h | h1 | Ø | Ø1 for screws |
|---------------------|------|-----------------------------|------|-------------------|-------|----------------|------|---------|-----------------------------------|---------|-----------|---|---------------|
| b1 | b2 | b1 | b2 | | | | | | | | | | |
| 1.55 | 1.00 | 1.55 | 1.55 | 10.90 | 12.12 | 1.96 | 1.57 | 0.31 N9 | 0.16 ^{+0.1} ₀ | 0.94 k6 | M8 x 0.75 | | |

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32-D30N4 servo drive

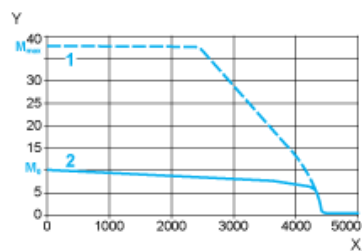


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



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