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Main

| | |
|---------------------------|--|
| Product or Component Type | Servo motor |
| Device short name | B5H |
| Maximum mechanical speed | 6000 rpm |
| Continuous stall torque | <p>39.83 Lbf.In (4.5 N.m) LXM15LD21M3, 230 V, single phase</p> <p>30.09 Lbf.In (3.4 N.m) LXM15LD13M3, 230 V, three phase</p> <p>30.09 Lbf.In (3.4 N.m) LXM15LD10N4, 230 V, three phase</p> <p>30.09 Lbf.In (3.4 N.m) LXM15LD10N4, 400 V, three phase</p> <p>30.09 Lbf.In (3.4 N.m) LXM15LD10N4, 480 V, three phase</p> <p>51.33 Lbf.In (5.8 N.m) LXM15LD17N4, 400 V, three phase</p> <p>51.33 Lbf.In (5.8 N.m) LXM15LD17N4, 480 V, three phase</p> <p>51.33 Lbf.In (5.8 N.m) LXM15LD21M3, 230 V, three phase</p> <p>48.68 Lbf.In (5.5 N.m) LXM05AD17M3X, 200...240 V, three phase</p> <p>48.68 Lbf.In (5.5 N.m) LXM05AD22N4, 380...480 V, three phase</p> <p>48.68 Lbf.In (5.5 N.m) LXM05AD28M2, 200...240 V, single phase</p> <p>48.68 Lbf.In (5.5 N.m) LXM05BD17M3X, 200...240 V, three phase</p> <p>48.68 Lbf.In (5.5 N.m) LXM05BD22N4, 380...480 V, three phase</p> <p>48.68 Lbf.In (5.5 N.m) LXM05BD28M2, 200...240 V, single phase</p> <p>48.68 Lbf.In (5.5 N.m) LXM05CD17M3X, 200...240 V, three phase</p> <p>48.68 Lbf.In (5.5 N.m) LXM05CD22N4, 380...480 V, three phase</p> <p>48.68 Lbf.In (5.5 N.m) LXM05CD28M2, 200...240 V, single phase</p> <p>51.33 Lbf.In (5.8 N.m) LXM32.D18N4 6 A, 400 V, three phase</p> <p>51.33 lbf.in (5.8 N.m) LXM32.D18N4 6 A, 480 V, three phase</p> |

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| Peak stall torque | <p>83.11 Lbf.In (9.39 N.m) LXM15LD21M3, 230 V, single phase</p> <p>49.56 Lbf.In (5.6 N.m) LXM15LD13M3, 230 V, three phase</p> <p>70.81 Lbf.In (8 N.m) LXM15LD10N4, 230 V, three phase</p> <p>70.81 Lbf.In (8 N.m) LXM15LD10N4, 400 V, three phase</p> <p>70.81 Lbf.In (8 N.m) LXM15LD10N4, 480 V, three phase</p> <p>107.36 Lbf.In (12.13 N.m) LXM15LD17N4, 400 V, three phase</p> <p>107.36 Lbf.In (12.13 N.m) LXM15LD17N4, 480 V, three phase</p> <p>130.90 Lbf.In (14.79 N.m) LXM15LD21M3, 230 V, three phase</p> <p>99.39 Lbf.In (11.23 N.m) LXM05AD17M3X, 200...240 V, three phase</p> <p>123.20 Lbf.In (13.92 N.m) LXM05AD22N4, 380...480 V, three phase</p> <p>141.61 Lbf.In (16 N.m) LXM05AD28M2, 200...240 V, single phase</p> <p>99.39 Lbf.In (11.23 N.m) LXM05BD17M3X, 200...240 V, three phase</p> <p>123.20 Lbf.In (13.92 N.m) LXM05BD22N4, 380...480 V, three phase</p> <p>141.61 Lbf.In (16 N.m) LXM05BD28M2, 200...240 V, single phase</p> <p>99.39 Lbf.In (11.23 N.m) LXM05CD17M3X, 200...240 V, three phase</p> <p>123.20 Lbf.In (13.92 N.m) LXM05CD22N4, 380...480 V, three phase</p> <p>141.61 Lbf.In (16 N.m) LXM05CD28M2, 200...240 V, single phase</p> <p>161.97 Lbf.In (18.3 N.m) LXM32.D18N4 6 A, 400 V, three phase</p> <p>161.97 lbf.in (18.3 N.m) LXM32.D18N4 6 A, 480 V, three phase</p> |
| Nominal output power | <p>950 W LXM15LD21M3, 230 V, single phase</p> <p>950 W LXM15LD21M3, 230 V, three phase</p> <p>780 W LXM05AD28M2, 200...240 V, single phase</p> <p>780 W LXM05BD28M2, 200...240 V, single phase</p> <p>780 W LXM05CD28M2, 200...240 V, single phase</p> <p>1400 W LXM05AD22N4, 380...480 V, three phase</p> <p>1400 W LXM05BD22N4, 380...480 V, three phase</p> <p>1400 W LXM05CD22N4, 380...480 V, three phase</p> <p>1600 W LXM15LD10N4, 400 V, three phase</p> <p>1700 W LXM15LD17N4, 400 V, three phase</p> <p>1950 W LXM15LD17N4, 480 V, three phase</p> <p>2150 W LXM15LD10N4, 480 V, three phase</p> <p>780 W LXM05AD17M3X, 200...240 V, three phase</p> <p>780 W LXM05BD17M3X, 200...240 V, three phase</p> <p>780 W LXM05CD17M3X, 200...240 V, three phase</p> <p>840 W LXM15LD13M3, 230 V, three phase</p> <p>890 W LXM15LD10N4, 230 V, three phase</p> <p>1700 W LXM32.D18N4 6 A, 400 V, three phase</p> <p>1700 W LXM32.D18N4 6 A, 480 V, three phase</p> |

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| Nominal torque | <p>39.83 Lbf.In (4.5 N.m) LXM15LD21M3, 230 V, single phase</p> <p>43.90 Lbf.In (4.96 N.m) LXM05AD28M2, 200...240 V, single phase</p> <p>43.90 Lbf.In (4.96 N.m) LXM05BD28M2, 200...240 V, single phase</p> <p>43.90 Lbf.In (4.96 N.m) LXM05CD28M2, 200...240 V, single phase</p> <p>30.09 Lbf.In (3.4 N.m) LXM15LD10N4, 230 V, three phase</p> <p>30.09 Lbf.In (3.4 N.m) LXM15LD10N4, 400 V, three phase</p> <p>30.09 Lbf.In (3.4 N.m) LXM15LD10N4, 480 V, three phase</p> <p>30.09 Lbf.In (3.4 N.m) LXM15LD13M3, 230 V, three phase</p> <p>32.75 Lbf.In (3.7 N.m) LXM15LD17N4, 480 V, three phase</p> <p>35.40 Lbf.In (4 N.m) LXM15LD17N4, 400 V, three phase</p> <p>38.94 Lbf.In (4.4 N.m) LXM05AD22N4, 380...480 V, three phase</p> <p>38.94 Lbf.In (4.4 N.m) LXM05BD22N4, 380...480 V, three phase</p> <p>38.94 Lbf.In (4.4 N.m) LXM05CD22N4, 380...480 V, three phase</p> <p>43.90 Lbf.In (4.96 N.m) LXM05AD17M3X, 200...240 V, three phase</p> <p>43.90 Lbf.In (4.96 N.m) LXM05BD17M3X, 200...240 V, three phase</p> <p>43.90 Lbf.In (4.96 N.m) LXM05CD17M3X, 200...240 V, three phase</p> <p>51.33 Lbf.In (5.8 N.m) LXM15LD21M3, 230 V, three phase</p> <p>35.40 Lbf.In (4 N.m) LXM32.D18N4 6 A, 400 V, three phase</p> <p>35.40 lbf.in (4 N.m) LXM32.D18N4 6 A, 480 V, three phase</p> |
| Nominal speed | <p>3000 rpm LXM05AD22N4, 380...480 V, three phase</p> <p>3000 rpm LXM05BD22N4, 380...480 V, three phase</p> <p>3000 rpm LXM05CD22N4, 380...480 V, three phase</p> <p>1500 rpm LXM05AD17M3X, 200...240 V, three phase</p> <p>1500 rpm LXM05BD17M3X, 200...240 V, three phase</p> <p>1500 rpm LXM05CD17M3X, 200...240 V, three phase</p> <p>4500 rpm LXM15LD10N4, 400 V, three phase</p> <p>6000 rpm LXM15LD10N4, 480 V, three phase</p> <p>4000 rpm LXM32.D18N4 6 A, 400 V, three phase</p> <p>4000 rpm LXM32.D18N4 6 A, 480 V, three phase</p> <p>1500 rpm LXM05AD28M2, 200...240 V, single phase</p> <p>1500 rpm LXM05BD28M2, 200...240 V, single phase</p> <p>1500 rpm LXM05CD28M2, 200...240 V, single phase</p> <p>2000 rpm LXM15LD21M3, 230 V, single phase</p> <p>2000 rpm LXM15LD21M3, 230 V, three phase</p> <p>2500 rpm LXM15LD10N4, 230 V, three phase</p> <p>2500 rpm LXM15LD13M3, 230 V, three phase</p> <p>4000 rpm LXM15LD17N4, 400 V, three phase</p> <p>5000 rpm LXM15LD17N4, 480 V, three phase</p> |

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|---------------------------|--|
| Product compatibility | LXM05AD28M2 200...240 V single phase LXM05BD28M2 200...240 V single phase LXM05CD28M2 200...240 V single phase LXM15LD21M3 230 V single phase LXM15LD13M3 230 V three phase LXM15LD10N4 400 V three phase LXM05AD17M3X 200...240 V three phase LXM05BD17M3X 200...240 V three phase LXM05CD17M3X 200...240 V three phase LXM15LD10N4 230 V three phase LXM15LD10N4 480 V three phase LXM15LD21M3 230 V three phase LXM05AD22N4 380...480 V three phase LXM05BD22N4 380...480 V three phase LXM05CD22N4 380...480 V three phase LXM15LD17N4 400 V three phase LXM15LD17N4 480 V three phase LXM32.D18N4 400 V three phase LXM32.D18N4 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 | Rotatable right-angled connectors |

Complementary

| | |
|---------------------------|---|
| Range Compatibility | Lexium 32 Lexium 15 Lexium 05 |
| Supply voltage max | 480 V |
| Phase | Three phase |
| Continuous stall current | 4.8 A |
| Maximum continuous power | 2.51 W |
| Maximum current Irms | 17.1 A LXM15LD13M3 17.1 A LXM15LD21M3 17.1 A LXM15LD10N4 17.1 A LXM15LD17N4 17.1 A LXM05AD28M2 17.1 A LXM05AD17M3X 17.1 A LXM05AD22N4 17.1 A LXM05BD28M2 17.1 A LXM05BD17M3X 17.1 A LXM05BD22N4 17.1 A LXM05CD28M2 17.1 A LXM05CD17M3X 17.1 A LXM05CD22N4 17.1 A LXM32.D18N4 |
| Maximum permanent current | 17.1 A |
| Switching frequency | 8 kHz |
| Second shaft | Without second shaft end |
| Shaft diameter | 0.75 in (19 mm) |
| Shaft length | 1.57 in (40 mm) |
| Key width | 1.18 in (30 mm) |
| Feedback type | Single turn SinCos Hiperface |
| Holding torque | 79.66 lbf.in (9 N.m) holding brake |
| Motor flange size | 3.94 in (100 mm) |
| Number of motor stacks | 2 |
| Torque constant | 1.21 N.m/A 248 °F (120 °C) |
| Back emf constant | 77 V/krpm 248 °F (120 °C) |
| Number of motor poles | 8 |
| Rotor inertia | 2.928 kg.cm ² |
| Stator resistance | 2.4 Ohm 68 °F (20 °C) |
| Stator inductance | 12.7 mH 68 °F (20 °C) |

| | |
|---------------------------------------|--|
| Stator electrical time constant | 5.29 ms 68 °F (20 °C) |
| Maximum radial force Fr | 620 N 4000 rpm 690 N 3000 rpm 790 N 2000 rpm 990 N 1000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Brake pull-in power | 18 W |
| Type of cooling | Natural convection |
| Length | 9.27 in (235.5 mm) |
| Centring collar diameter | 3.74 in (95 mm) |
| Centring collar depth | 0.14 in (3.5 mm) |
| Number of mounting holes | 4 |
| Mounting holes diameter | 0.35 in (9 mm) |
| Circle diameter of the mounting holes | 4.53 in (115 mm) |
| Net Weight | 13.89 lb(US) (6.3 kg) |

Ordering and shipping details

| | |
|-----------------------|-------------------------|
| Category | 18282-LEXIUM 32 MOTORS |
| Discount Schedule | PC53 |
| GTIN | 3389118139343 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 16.67 lb(US) (7.562 kg) |
| Returnability | No |
| Country of origin | DE |

Packing Units

| | |
|------------------------------|---------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 8.66 in (22 cm) |
| Package 1 width | 7.68 in (19.5 cm) |
| Package 1 Length | 15.55 in (39.5 cm) |
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 12 |
| Package 2 Weight | 218.80 lb(US) (99.244 kg) |
| Package 2 Height | 30.31 in (77 cm) |
| Package 2 width | 31.50 in (80 cm) |
| Package 2 Length | 23.62 in (60 cm) |

Offer Sustainability

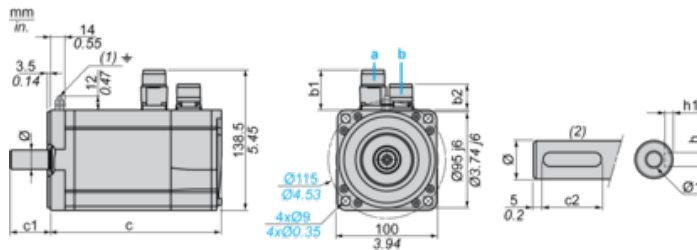
| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| 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 |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| PVC free | Yes |

Contractual warranty

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|----------|-----------|
| Warranty | 18 months |
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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 | 205 | 236 | 40 | 30 | 6 N9 | 3.5 ^{+0.1} ₀ | 19 k6 | M6 x 16 |

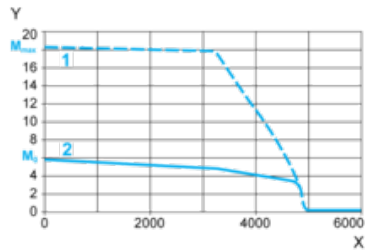
Dimensions in in.

| 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 | 8.07 | 9.29 | 1.57 | 1.18 | 0.24 N9 | 0.14 ^{+0.1} ₀ | 0.75 k6 | M6 x 0.63 |

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32-D18N4 servo drive



X Speed in rpm

Y Torque in Nm

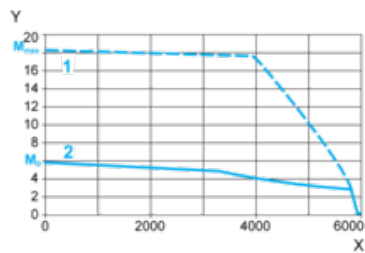
1 Peak torque

2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32-D18N4 servo drive



X Speed in rpm

Y Torque in Nm

1 Peak torque

2 Continuous torque