

BMH0702T02A2A

servo motor BMH, Lexium 32, 2.5Nm,
8000rpm, untapped shaft, without brake, IP54,
128 multiturn encoder



Main

| | |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Product or Component Type | Servo motor |
| Device short name | BMH |
| Maximum mechanical speed | 8000 rpm |
| Continuous stall torque | 22.13 Lbf.In (2.5 N.m) LXM32.D30M2 10 A, 115 V, single phase 22.13 lbf.in (2.5 N.m) LXM32.D18M2 6 A, 230 V, single phase |
| Peak stall torque | 56.64 Lbf.In (6.4 N.m) LXM32.D30M2 10 A, 115 V, single phase 65.50 lbf.in (7.4 N.m) LXM32.D18M2 6 A, 230 V, single phase |
| Nominal output power | 600 W LXM32.D30M2 10 A, 115 V, single phase 900 W LXM32.D18M2 6 A, 230 V, single phase |
| Nominal torque | 20.36 Lbf.In (2.3 N.m) LXM32.D30M2 10 A, 115 V, single phase 18.59 lbf.in (2.1 N.m) LXM32.D18M2 6 A, 230 V, single phase |
| Nominal speed | 2500 rpm LXM32.D30M2 10 A, 115 V, single phase 4000 rpm LXM32.D18M2 6 A, 230 V, single phase |
| Product compatibility | LXM32.D30M2 115 V single phase LXM32.D18M2 230 V single phase |
| Shaft end | Smooth shaft |
| IP Degree of Protection | IP54 standard |
| 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 | Lexium 32 |
| [Us] rated supply voltage | 240 V |
| Phase | Three phase |
| Continuous stall current | 5.38 A |
| Continuous power | 1.51 W |
| Maximum current Irms | 15 A LXM32.D30M2 17.5 A LXM32.D18M2 |
| Maximum permanent current | 17.71 A |
| Second shaft | Without second shaft end |
| Shaft diameter | 0.43 in (11 mm) |
| Shaft length | 0.91 in (23 mm) |
| Feedback type | Multiturn SinCos Hiperface |
| Motor flange size | 2.76 in (70 mm) |
| Number of motor stacks | 2 |
| Torque constant | 0.46 N.m/A 248 °F (120 °C) |
| Back emf constant | 29.6 V/krpm 248 °F (120 °C) |
| Number of motor poles | 10 |
| Rotor inertia | 1.13 kg.cm ² |

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| | |
|---------------------------------------|----------------------------------------------------------------------------------------------------------|
| Stator resistance | 1.15 Ohm 68 °F (20 °C) |
| Stator inductance | 3.6 mH 68 °F (20 °C) |
| Stator electrical time constant | 3.1 ms 68 °F (20 °C) |
| Maximum radial force Fr | 710 N 1000 rpm 560 N 2000 rpm 490 N 3000 rpm 450 N 4000 rpm 410 N 5000 rpm 390 N 6000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Type of cooling | Natural convection |
| Length | 6.06 in (154 mm) |
| Centring collar diameter | 2.36 in (60 mm) |
| Centring collar depth | 0.10 in (2.5 mm) |
| Number of mounting holes | 4 |
| Mounting holes diameter | 0.22 in (5.5 mm) |
| Circle diameter of the mounting holes | 3.23 in (82 mm) |
| Net Weight | 5.07 lb(US) (2.3 kg) |

Ordering and shipping details

| | |
|-------------------|------------------------|
| Category | 18282-LEXIUM 32 MOTORS |
| Discount Schedule | PC53 |
| GTIN | 3606485194547 |
| Returnability | No |
| Country of origin | DE |

Packing Units

| | |
|------------------------------|----------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.33 in (11.0 cm) |
| Package 1 Width | 7.87 in (20.0 cm) |
| Package 1 Length | 15.75 in (40.0 cm) |
| Package 1 Weight | 4.41 lb(US) (2.0 kg) |

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) |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| 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. |
| PVC free | Yes |

Contractual warranty

| | |
|----------|-----------|
| 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) Shaft end, keyed slot (optional)

Dimensions in mm

| Straight connectors | | Rotatable angled connectors | | c (without brake) | c (with brake) | c1 | c2 | c3 | h | h1 | Ø | Ø1 for screws |
|---------------------|------|-----------------------------|------|-------------------|----------------|----|----|-----|------|-------------------------------------|-------|---------------|
| b1 | b2 | b1 | b2 | | | | | | | | | |
| 39.5 | 25.5 | 39.5 | 39.5 | 154 | 193 | 23 | 18 | 2.5 | 4 h9 | 12.5 ⁺⁰ _{-0.13} | 11 k6 | M4 x 14 |

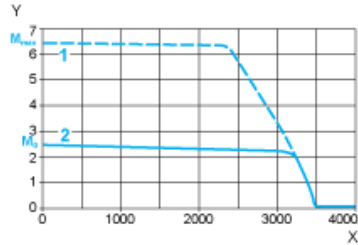
Dimensions in in.

| Straight connectors | | Rotatable angled connectors | | c (without brake) | c (with brake) | c1 | c2 | c3 | h | h1 | Ø | Ø1 for screws |
|---------------------|----|-----------------------------|------|-------------------|----------------|------|------|------|---------|---------------------------------------|---------|---------------|
| b1 | b2 | b1 | b2 | | | | | | | | | |
| 1.55 | 1 | 1.55 | 1.55 | 6.06 | 7.59 | 0.90 | 0.70 | 0.09 | 0.16 h9 | 0.49 ⁺⁰ _{-0.0051} | 0.43 k6 | M4 x 0.55 |

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

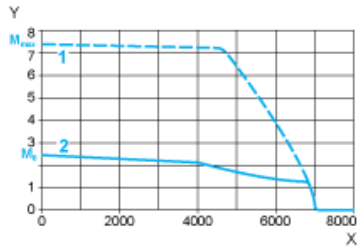


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



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