



Main

| | |
|---------------------------|------------------------------|
| Range Compatibility | Lexium 32i |
| Product or Component Type | Servo motor with power stage |
| Device short name | BMI |

Complementary

| | |
|---------------------------|--|
| Maximum mechanical speed | 8000 rpm |
| [Us] rated supply voltage | 115...230 V - 15...10 % |
| Supply voltage limits | 100...240 V |
| Phase | Single phase |
| Supply frequency | 50/60 Hz - 5...5 % |
| Network frequency limits | 47.5...63 Hz |
| EMC filter | Integrated |
| Continuous output current | 2.6 A 8 kHz |
| Output current 3s peak | 10.5 A 230 V 1 s |
| Continuous stall current | 2.6 A |
| Continuous stall torque | 21.95 lbf.in (2.48 N.m) 115...230 V single phase |
| Peak stall torque | 58.41 lbf.in (6.6 N.m) 115 V single phase 58.41 lbf.in (6.6 N.m) 230 V single phase |
| Nominal output power | 700 W 230 V single phase 400 W 115 V single phase |
| Nominal torque | 19.47 lbf.in (2.2 N.m) 115 V single phase 15.05 lbf.in (1.7 N.m) 230 V single phase |
| Nominal speed | 4000 rpm 230 V single phase 1700 rpm 115 V single phase |
| Maximum current Irms | 17.7 A 230 V, single phase 17.7 A 115 V, single phase |
| Product compatibility | Drive control unit LXM32i CANopen Drive control unit LXM32i EtherCAT |
| Shaft end | Untapped |
| Second shaft | Without second shaft end |
| Shaft diameter | 0.43 in (11 mm) |
| Shaft length | 0.91 in (23 mm) |
| Feedback type | Absolute single turn SinCos Hiperface |
| Speed feedback resolution | 32768 points/turn |
| Holding brake | With |
| Holding torque | 26.55 lbf.in (3 N.m) holding brake |
| Mounting Support | International standard flange |
| Motor flange size | 2.76 in (70 mm) |
| Electrical Connection | Printed circuit board connector |
| Torque constant | 0.63 N.m/A 68 °F (20 °C) |
| Back emf constant | 42.1 V/krpm 68 °F (20 °C) |

| | |
|---------------------------------------|--|
| Number of motor poles | 10 |
| Rotor inertia | 1.24 kg.cm ² |
| Stator resistance | 2.7 Ohm 68 °F (20 °C) |
| Stator inductance | 7.8 mH 68 °F (20 °C) |
| Stator electrical time constant | 2.89 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 |
| Brake pull-in power | 5 W |
| Type of cooling | Natural convection |
| Length | 12.05 in (306 mm) |
| Number of motor stacks | 2 |
| 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 | 2.95...3.23 in (75...82 mm) |
| Distance shaft shoulder-flange | 0.10 in (2.5 mm) |

Environment

| | |
|-------------------------|----------------------------|
| IP Degree of Protection | Shaft IP54 Housing IP65 |
|-------------------------|----------------------------|


Ordering and shipping details

| | |
|-------------------|-----------------------------------|
| Category | 18287-LEXIUM 32 INTEGRATED DRIVES |
| Discount Schedule | PC56 |
| GTIN | 3606485376011 |
| Returnability | No |
| Country of origin | DE |

Packing Units

| | |
|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 7.87 in (20.0 cm) |
| Package 1 Width | 23.23 in (59.0 cm) |
| Package 1 Length | 10.16 in (25.8 cm) |
| Package 1 Weight | 11.90 lb(US) (5.4 kg) |
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 8 |
| Package 2 Height | 30.31 in (77.0 cm) |
| Package 2 Width | 31.50 in (80.0 cm) |
| Package 2 Length | 23.62 in (60.0 cm) |
| Package 2 Weight | 113.98 lb(US) (51.7 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 | End Of Life Information |
| 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 |
|----------|-----------|

External Dimensions

With Standard Braking Resistor

Mounting type A



- (1) Module for supply voltage
- (2) I/O module
- (3) Standard braking resistor

Dimensions in mm

| W | H | L |
|----|-----|-----|
| 99 | 187 | 327 |

Dimensions in in.

| W | H | L |
|------|------|-------|
| 3,90 | 7,36 | 12,87 |

Mounting type B



- (1) Module for supply voltage
- (2) I/O module
- (3) Standard braking resistor

Dimensions in mm

| W | H | L |
|----|-------|-----|
| 99 | 138,5 | 376 |

Dimensions in in.

| | | |
|------|------|------|
| W | H | L |
| 3,90 | 5,45 | 14,8 |

With External Braking Resistor

Mounting type C



- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

Dimensions in mm

| | | |
|----|-----|-----|
| W | H | L |
| 99 | 187 | 339 |

Dimensions in in.

| | | |
|------|------|-------|
| W | H | L |
| 3,90 | 7,36 | 13,35 |

Mounting type D



- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

Dimensions in mm

| | | |
|----|-----|-----|
| W | H | L |
| 99 | 160 | 376 |

Dimensions in in.

| | | |
|------|-----|------|
| W | H | L |
| 3,90 | 6,3 | 14,8 |

Mounting type E



- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

Dimensions in mm

| W | H | L |
|----|-----|-----|
| 99 | 187 | 366 |

Dimensions in in.

| W | H | L |
|------|------|-------|
| 3,90 | 7,36 | 14,41 |

Mounting type F



- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

Dimensions in mm

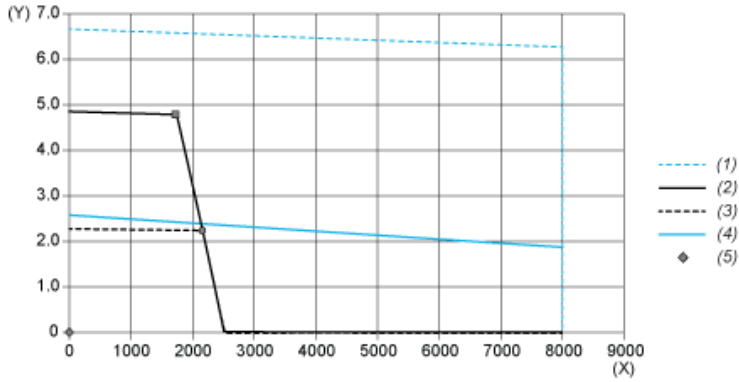
| W | H | L |
|----|-----|-----|
| 99 | 180 | 376 |

Dimensions in in.

| W | H | L |
|------|------|------|
| 3,90 | 7,09 | 14,8 |

Performance Curves

Torque/Speed Curves with 115 V Single Phase Supply Voltage



- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

| | | Power | At Speed | With Torque |
|-------------------------|---|-------|----------|-------------|
| max. Peak Power | ■ | 860 W | 1760 rpm | 4.67 N.m |
| max Cont. Power (Drive) | ● | 499 W | 2160 rpm | 2.21 N.m |

Performance Curves

Torque/Speed Curves with 230 V Single Phase Supply Voltage



- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

| | | Power | At Speed | With Torque |
|-------------------------|---|--------|----------|-------------|
| max. Peak Power | ■ | 2129 W | 3360 rpm | 6.05 N.m |
| max Cont. Power (Drive) | ● | 736 W | 4640 rpm | 1.51 N.m |