



## Main

|                           |                                            |
|---------------------------|--------------------------------------------|
| Range of product          | Lexium integrated drive                    |
| Product or component type | Motion integrated drive                    |
| Device short name         | ILS                                        |
| Motor type                | 3-phase stepper motor                      |
| Number of motor poles     | 6                                          |
| Phase                     | Single phase                               |
| [Us] rated supply voltage | 24 V<br>36 V                               |
| Network type              | DC                                         |
| Communication interface   | RS485, Integrated                          |
| Length                    | 7.90 in (200.6 mm)                         |
| Winding type              | Medium speed of rotation and medium torque |
| Electrical connection     | Printed circuit board connector            |
| Holding brake             | Without                                    |
| Gear box type             | Without                                    |
| Nominal speed             | 120 rpm 36 V<br>60 rpm 24 V                |
| Nominal torque            | 53.10 lbf.in (6 N.m)                       |
| Holding torque            | 53.10 lbf.in (6 N.m)                       |

## Complementary

|                                       |                                                                                                                 |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Transmission rate                     | 9.6, 19.2 and 38.4 kbauds                                                                                       |
| Mounting support                      | Flange                                                                                                          |
| Motor flange size                     | 3.35 in (85 mm)                                                                                                 |
| Number of motor stacks                | 3                                                                                                               |
| Centring collar diameter              | 2.36 in (60 mm)                                                                                                 |
| Centring collar depth                 | 0.08 in (2 mm)                                                                                                  |
| Number of mounting holes              | 4                                                                                                               |
| Mounting holes diameter               | 0.26 in (6.5 mm)                                                                                                |
| Circle diameter of the mounting holes | 3.90 in (99 mm)                                                                                                 |
| Feedback type                         | Index pulse                                                                                                     |
| Shaft end                             | Untapped                                                                                                        |
| Second shaft                          | Without second shaft end                                                                                        |
| Shaft diameter                        | 0.55 in (14 mm)                                                                                                 |
| Shaft length                          | 1.18 in (30 mm)                                                                                                 |
| Supply voltage limits                 | 18...40 V                                                                                                       |
| Current consumption                   | 5000 mA maximum                                                                                                 |
| Associated fuse rating                | 10 A                                                                                                            |
| Input/output type                     | 4 signals (each be used as input or output)                                                                     |
| Voltage state 0 guaranteed            | -3...4.5 V                                                                                                      |
| Voltage state 1 guaranteed            | 15...30 V                                                                                                       |
| Discrete input current                | 10 MA at 24 V on/STO_A safety input<br>3 MA at 24 V on/STO_B safety input<br>2 mA at 24 V 24 V signal interface |
| Discrete output voltage               | 23...25 V                                                                                                       |

|                           |                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------|
| Maximum switching current | 100 MA per output<br>200 mA total                                                    |
| Protection type           | Overload of output voltage<br>Short circuit of the output voltage<br>Safe torque off |
| Peak stall torque         | 53.10 lbf.in (6 N.m)                                                                 |
| Continuous stall torque   | 53.10 lbf.in (6 N.m)                                                                 |
| Speed feedback resolution | 20000 points/turn                                                                    |
| Accuracy error            | +/- 6 arc min                                                                        |
| Rotor inertia             | 3.3 kg.cm <sup>2</sup>                                                               |
| Maximum mechanical speed  | 1000 rpm                                                                             |
| Maximum radial force Fr   | 110 N                                                                                |
| Maximum axial force Fa    | 170 N tensile force)<br>30 N force pressure)                                         |
| Service life in hours     | 20000 h bearing                                                                      |
| Marking                   | CE                                                                                   |
| Type of cooling           | Natural convection                                                                   |
| Net weight                | 10.36 lb(US) (4.7 kg)                                                                |

## Environment

|                                                       |                                                                                                                                               |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                                             | IEC 61800-3, Ed 2<br>EN/IEC 61800-3<br>EN 61800-3 : 2001-02<br>EN/IEC 50178<br>EN 50347<br>IEC 60072-1<br>EN 61800-3:2001, second environment |
| Product certifications                                | TÜV<br>UL<br>CUL                                                                                                                              |
| Ambient air temperature for operation                 | 50...65 °C (with power derating of 2 % per °C)<br>0...50 °C (without derating)                                                                |
| Permissible ambient air temperature around the device | 221 °F (105 °C) power amplifier<br>230 °F (110 °C) motor                                                                                      |
| Ambient air temperature for storage                   | -13...158 °F (-25...70 °C)                                                                                                                    |
| Operating altitude                                    | <= 1000 m without derating                                                                                                                    |
| Relative humidity                                     | 15...85 % without condensation                                                                                                                |
| Vibration resistance                                  | 20 m/s <sup>2</sup> 10...500 Hz) 10 cycles EN/IEC 60068-2-6                                                                                   |
| Shock resistance                                      | 150 m/s <sup>2</sup> 1000 shocks EN/IEC 60068-2-29                                                                                            |
| IP degree of protection                               | IP41 shaft bushing: conforming to EN/IEC 60034-5<br>Total except shaft bushing IP54 EN/IEC 60034-5                                            |

## Ordering and shipping details

|                       |                                     |
|-----------------------|-------------------------------------|
| Category              | 18288 - LEXIUM INTEGRATED DRIVES II |
| Discount Schedule     | PC56                                |
| GTIN                  | 03389119227513                      |
| Nbr. of units in pkg. | 1                                   |
| Package weight(Lbs)   | 1 lb(US) (0.45 kg)                  |
| Returnability         | No                                  |
| Country of origin     | DE                                  |

## Packing Units

|                        |                   |
|------------------------|-------------------|
| Unit Type of Package 1 | PCE               |
| Package 1 Height       | 4.13 in (10.5 cm) |
| Package 1 width        | 7.48 in (19 cm)   |
| Package 1 Length       | 15.35 in (39 cm)  |

## Offer Sustainability

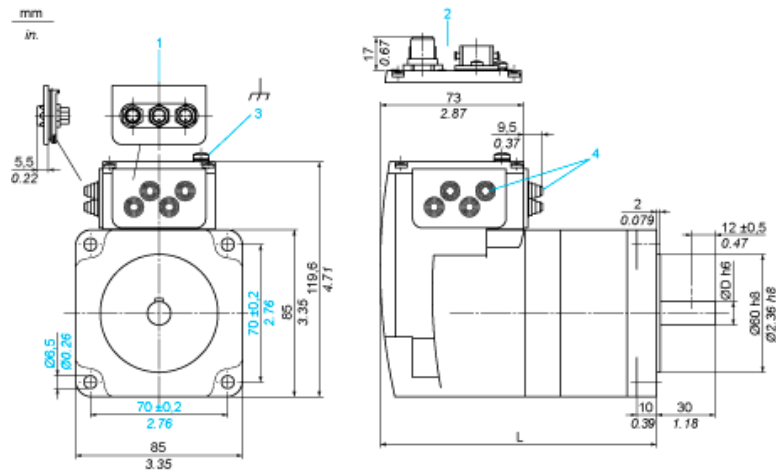
|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                           |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                              |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                                                      |
| 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 |
|----------|-----------|

Integrated Drive without Holding Brake

Dimensions



- 1 Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries  $\varnothing = 3 \dots 9 \text{ mm}/0.12 \dots 0.35 \text{ in.}$
- L 200.6 mm/7.90 in.
- D 14 mm/0.55 in.

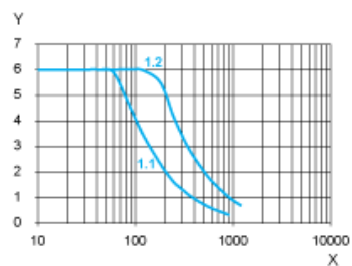
## Connection Example with 4 I/O Signals



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## Torque Characteristics

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X Speed of rotation in rpm

Y Torque in Nm

1.1 Max. torque at 24 V

1.2 Max. torque at 36 V