



Main

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| 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 | 48 V 24 V |
| Network type | DC |
| Communication interface | EtherCAT, Integrated |
| Length | 7.90 in (200.6 mm) |
| Winding type | High speed of rotation and medium torque |
| Electrical connection | Printed circuit board connector |
| Holding brake | Without |
| Gear box type | Without |
| Nominal speed | 200 rpm 24 V 400 rpm 48 V |
| Nominal torque | 39.83 lbf.in (4.5 N.m) |
| Holding torque | 39.83 lbf.in (4.5 N.m) |

Complementary

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| Transmission rate | 100 Mbits |
| 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...55 V |
| Current consumption | 6000 mA maximum continuous |
| Associated fuse rating | 16 A |
| Commissioning interface | RS485 Modbus TCP 9.6, 19.2 and 38.4 kbauds |
| 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 safety input 2 mA at 24 V 24 V signal interface |
| Discrete output voltage | 23...25 V |

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| Maximum switching current | 100 MA per output 200 mA total |
| Protection type | Safe torque off Overload of output voltage Short circuit of the output voltage |
| Peak stall torque | 39.83 lbf.in (4.5 N.m) |
| Continuous stall torque | 39.83 lbf.in (4.5 N.m) |
| Speed feedback resolution | 20000 points/turn |
| Accuracy error | +/- 6 arc min |
| Rotor inertia | 3.3 kg.cm ² |
| Maximum mechanical speed | 3000 rpm |
| Maximum radial force Fr | 110 N |
| Maximum axial force Fa | 170 N tensile force) 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

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| Standards | IEC 61800-3, Ed 2 EN 61800-3 : 2001-02 EN/IEC 61800-3 EN/IEC 50178 EN 50347 IEC 60072-1 EN 61800-3:2001, second environment |
| Product certifications | TÜV UL CUL |
| Ambient air temperature for operation | 104...131 °F (40...55 °C) with power derating of 2 % per °C) 32...104 °F (0...40 °C) without derating) |
| Permissible ambient air temperature around the device | 221 °F (105 °C) power amplifier 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 ² 10...500 Hz) 10 cycles EN/IEC 60068-2-6 |
| Shock resistance | 150 m/s ² 1000 shocks EN/IEC 60068-2-29 |
| IP degree of protection | IP41 shaft bushing: conforming to EN/IEC 60034-5 Total except shaft bushing IP54 EN/IEC 60034-5 |

Ordering and shipping details

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| Category | 18288 - LEXIUM INTEGRATED DRIVES II |
| Discount Schedule | PC56 |
| GTIN | 03606485189574 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 1 lb(US) (0.45 kg) |
| Returnability | No |
| Country of origin | DE |

Packing Units

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|------------------------|--------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 4.09 in (10.4 cm) |
| Package 1 width | 7.09 in (18 cm) |
| Package 1 Length | 14.37 in (36.5 cm) |

Offer Sustainability

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| 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 |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| PVC free | Yes |

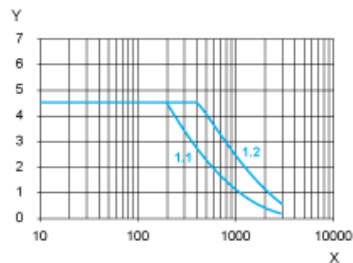
Contractual warranty

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| Warranty | 18 months |
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Connection Example with 4 I/O Signals



Torque Characteristics



X Speed of rotation in rpm

Y Torque in Nm

1.1 Max. torque at 24 V

1.2 Max. torque at 48 V