

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 |
| Network number of phases | Single phase |
| [Us] rated supply voltage | 24 V 48 V |
| Network type | DC |
| Communication interface | Ethernet/IP, integrated |
| Length | 138.9 mm |
| Winding type | Medium speed of rotation and medium torque |
| Electrical connection | Industrial connector |
| Holding brake | Without |
| Gear box type | Without |
| Nominal speed | 300 rpm at 24 V 600 rpm at 48 V |
| Nominal torque | 1.5 N.m |
| Holding torque | 1.5 N.m |

Complementary

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| Transmission rate | 125, 250, 500 kbauds |
| Mounting support | Flange |
| Motor flange size | 57 mm |
| Number of motor stacks | 3 |
| Centring collar diameter | 38.1 mm |
| Centring collar depth | 1.6 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 5.2 mm |
| Circle diameter of the mounting holes | 66.6 mm |
| Feedback type | Index pulse |
| Shaft end | Untapped |
| Second shaft | Without second shaft end |
| Shaft diameter | 8 mm |
| Shaft length | 21 mm |
| Supply voltage limits | 18...55 V |
| Current consumption | 3500 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 for safety input 2 mA at 24 V for 24 V signal interface |

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| Discrete output voltage | 23...25 V |
| Maximum switching current | 100 MA per output 200 mA total |
| Protection type | Overload of output voltage Safe torque off Short circuit of the output voltage |
| Peak stall torque | 1.5 N.m |
| Continuous stall torque | 1.5 N.m |
| Speed feedback resolution | 20000 points/turn |
| Accuracy error | +/- 6 arc min |
| Rotor inertia | 0.38 kg.cm ² |
| Maximum mechanical speed | 3000 rpm |
| Maximum radial force Fr | 50 N |
| Maximum axial force Fa | 100 N (tensile force) 8.4 N (force pressure) |
| Service life in hours | 20000 h bearing |
| Marking | CE |
| Type of cooling | Natural convection |
| Net weight | 2 kg |

Environment

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| Standards | IEC 50178 EN 61800-3 : 2001-02 IEC 50347 EN 61800-3:2001, second environment IEC 61800-3 IEC 60072-1 IEC 61800-3, Ed 2 |
| Product certifications | TÜV[RETURN]cUL[RETURN]UL |
| Ambient air temperature for operation | 40...55 °C (with power derating of 2 % per °C) 0...40 °C (without derating) |
| Permissible ambient air temperature around the device | 105 °C power amplifier 110 °C motor |
| Ambient air temperature for storage | -25...70 °C |
| Operating altitude | <= 1000 m without derating |
| Relative humidity | 15...85 % without condensation |
| Vibration resistance | 20 m/s ² (f= 10...500 Hz) 10 cycles conforming to IEC 60068-2-6 |
| Shock resistance | 150 m/s ² 1000 shocks conforming to IEC 60068-2-29 |
| IP degree of protection | IP41 shaft bushing: conforming to IEC 60034-5 IP54 total except shaft bushing: conforming to IEC 60034-5 |

Packing Units

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|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 8.0 cm |
| Package 1 Width | 18.5 cm |
| Package 1 Length | 36.5 cm |
| Package 1 Weight | 2.3 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| 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 |

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| 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 |

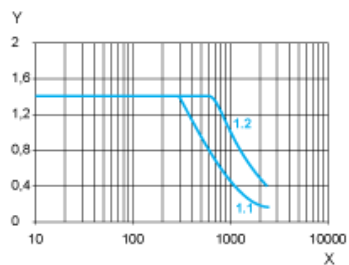
Contractual warranty

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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