

ILE1F661PC1A0

brushless DC motor, Lexium ILA ILE ILS, 24 to 36V, CANopen DS301 interface, industrial connector, 122mm, without gearbox



Main

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|---------------------------|---|
| Range of Product | Lexium integrated drive |
| Product or Component Type | Motion integrated drive |
| Device short name | ILE |
| Motor Type | Brushless DC motor |
| Number of motor poles | 6 |
| Phase | Single phase |
| [Us] rated supply voltage | 24 V 36 V |
| Network type | DC |
| Communication interface | CANopen DS301, Integrated |
| Length | 4.80 in (122 mm) |
| Winding type | Medium speed of rotation and medium torque |
| Electrical Connection | Industrial connector |
| Holding brake | Without |
| Gear box type | Without |
| Reduction ratio | 1:1 |
| Nominal speed | 4000 rpm 24 V 4800 rpm 36 V |
| Nominal torque | 1.55 lbf.in (0.175 N.m) 24 V 2.12 lbf.in (0.24 N.m) 36 V |

Complementary

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| Transmission Rate | 50, 100, 125, 250, 500, 800 and 1000 kbauds |
| Mounting Support | Flange |
| Motor flange size | 2.60 in (66 mm) |
| Number of motor stacks | 1 |
| Centring collar diameter | 1.57 in (40 mm) |
| Centring collar depth | 0.08 in (2 mm) |
| Number of mounting holes | 4 |
| Mounting holes diameter | 0.17 in (4.4 mm) |
| Circle diameter of the mounting holes | 2.90 in (73.54 mm) |
| Feedback type | BLDC encoder |
| Shaft end | Untapped |
| Second shaft | Without second shaft end |
| Shaft diameter | 0.31 in (8 mm) |
| Shaft length | 0.98 in (25 mm) |
| Supply voltage limits | 18...40 V |
| Current consumption | 7000 mA peak 5500 mA maximum continuous |
| 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 |

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| Discrete input current | 10 MA at 24 V on/STO_A safety input 3 MA at 24 V on/STO_B safety input 2 mA at 24 V 24 V signal interface |
| Discrete output voltage | 23...25 V |
| Maximum switching current | 100 MA per output 200 mA total |
| Protection Type | Safe torque off Short circuit of the output voltage Overload of output voltage |
| Maximum supply current | 0.06 A 36 V power stage disabled) 0.1 A 24 V power stage disabled) 4.7 A 24 V 5.1 A 36 V |
| Nominal output power | 117 W 36 V 74 W 24 V |
| Peak stall torque | 2.30 Lbf.in (0.26 N.m) 24 V 3.19 lbf.in (0.36 N.m) 36 V |
| Continuous stall torque | 2.39 lbf.in (0.27 N.m) |
| Detent torque | 0.71 lbf.in (0.08 N.m) |
| Speed feedback resolution | 12 points/turn |
| Accuracy error | +/- 1 ° |
| Rotor inertia | 0.149 kg.cm ² |
| Maximum mechanical speed | 5000 rpm |
| Maximum radial force Fr | 80 N |
| Maximum axial force Fa | 30 N force pressure) 30 N tensile force) |
| Service life in hours | 20000 h bearing |
| Marking | CE |
| Type of cooling | Natural convection |
| Net Weight | 3.09 lb(US) (1.4 kg) |

Environment

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| Standards | IEC 50347 IEC 61800-3 EN 61800-3 : 2001-02 EN 61800-3:2001, second environment IEC 60072-1 IEC 50178 IEC 61800-3, Ed 2 |
| Product Certifications | TÜV[RETURN]cUL[RETURN]JUL |
| Ambient air temperature for operation | 122...149 °F (50...65 °C) with power derating of 2 % per °C) 32...122 °F (0...50 °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 | <= 3280.84 ft (1000 m) without derating |
| Relative humidity | 15...85 % without condensation |
| Vibration resistance | 20 m/s ² 10...500 Hz) 10 cycles IEC 60068-2-6 |
| Shock resistance | 150 m/s ² 1000 shocks IEC 60068-2-29 |
| IP degree of protection | Shaft bushing IP41 IEC 60034-5 Total except shaft bushing IP54 IEC 60034-5 |

Ordering and shipping details

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|-------------------|-----------------------------------|
| Category | 18288-LEXIUM INTEGRATED DRIVES II |
| Discount Schedule | PC56 |
| GTIN | 3389119222396 |
| Returnability | No |
| Country of origin | DE |

Packing Units

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|------------------------------|----------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.15 in (8.0 cm) |
| Package 1 Width | 7.28 in (18.5 cm) |
| Package 1 Length | 13.98 in (35.5 cm) |
| Package 1 Weight | 3.97 lb(US) (1.8 kg) |

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) |
| 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 |

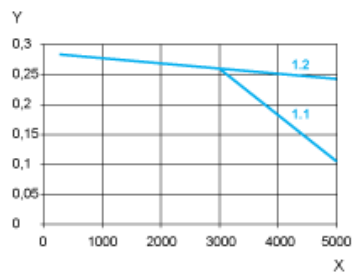
Contractual warranty

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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 36 V