ILE1R661PC1A0

brushless DC motor, Lexium ILA ILE ILS, 24 to 36V, RS485 interface, industrial connector, 122mm, without gearbox





Main

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
Network number of phases	Single phase
[Us] rated supply voltage	36 V 24 V
Network type	DC
Communication interface	RS485, integrated
Length	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 at 24 V 4800 rpm at 36 V
Nominal torque	0.175 N.M at 24 V 0.24 N.m at 36 V

Complementary

Complementary	
Transmission rate	9.6, 19.2 and 38.4 kbauds
Mounting support	Flange
Motor flange size	66 mm
Number of motor stacks	1
Centring collar diameter	40 mm
Centring collar depth	2 mm
Number of mounting holes	4
Mounting holes diameter	4.4 mm
Circle diameter of the mounting holes	73.54 mm
Feedback type	BLDC encoder
Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	8 mm
Shaft length	25 mm
Supply voltage limits	1840 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	-34.5 V
Voltage state 1 guaranteed	1530 V

Discrete input current	10 MA at 24 V on/STO_A for safety input
	3 MA at 24 V on/STO_B for safety input 2 mA at 24 V for 24 V signal interface
Discrete output voltage	2325 V
Maximum switching current	100 MA per output 200 mA total
Protection type	Short circuit of the output voltage Safe torque off Overload of output voltage
Maximum supply current	0.06 A at 36 V (power stage disabled) 0.1 A at 24 V (power stage disabled) 4.7 A at 24 V 5.1 A at 36 V
Nominal output power	117 W at 36 V 74 W at 24 V
Peak stall torque	0.26 N.M at 24 V 0.36 N.m at 36 V
Continuous stall torque	0.27 N.m
Detent torque	0.08 N.m
Speed feedback resolution	12 points/turn
Accuracy error	+/- 1 °
Rotor inertia	0.149 kg.cm²
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	1.4 kg

Environment

Littlioiliticit	
Standards	IEC 61800-3, Ed 2 EN 61800-3 : 2001-02 IEC 61800-3 IEC 60072-1 IEC 50178 EN 61800-3:2001, second environment IEC 50347
Product certifications	cUL[RETURN]TÜV[RETURN]UL
Ambient air temperature for operation	5065 °C (with power derating of 2 % per °C) 050 °C (without derating)
Permissible ambient air temperature around the device	105 °C power amplifier 110 °C motor
Ambient air temperature for storage	-2570 °C
Operating altitude	<= 1000 m without derating
Relative humidity	1585 % without condensation
Vibration resistance	20 m/s² (f= 10500 Hz) 10 cycles conforming to IEC 60068-2-6
Shock resistance	150 m/s² 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

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	35.5 cm	
Package 1 Weight	1.8 kg	

Offer Sustainability

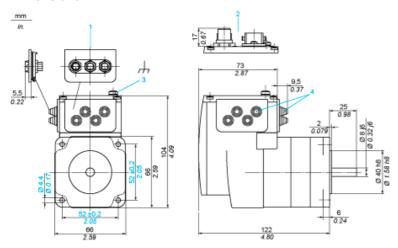
Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
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

Warranty	18 months	

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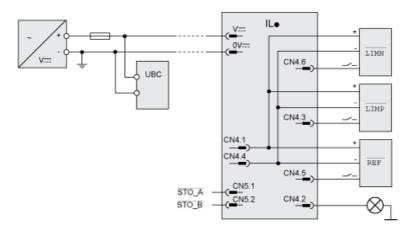
Integrated Drive without Gearing

Dimensions



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

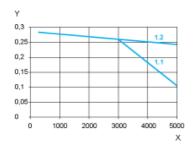
Connection Example with 4 I/O Signals



Product data sheet Performance Curves

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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