



brushless DC motor, Lexium ILA ILE ILS, 24 to 48V, Modbus TCP interface, industrial connector, 174mm, 54:1

ILE2T661PC1A6



(!) Discontinued on: 15 Jun 2023



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	48 V 24 V	
network type	DC	
Communication interface	Modbus TCP, integrated	
Length	229 mm	
Winding type	Medium speed of rotation and medium torque	
Electrical connection	Industrial connector	
Holding brake	Without	
Gear box type	Worm gear, 3 stages	
Reduction ratio	54:1 (1715:32)	
Nominal speed	75 rpm at 24 V 75 rpm at 48 V	
Nominal torque	6 N.m at 24 V 6 N.m at 48 V	

Complementary

Transmission rate	10, 100 Mbits
mounting support	Flange
Motor flange size	66 mm
Number of motor stacks	1
Centring collar diameter	36 mm
Number of mounting holes	2
Mounting holes diameter	4.4 mm
Feedback type	BLDC encoder
Shaft end	Hole

Second shaft	Without second shaft end
Supply voltage limits	1855.2 V
Current consumption	7000 mA peak 5500 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	-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	Overload of output voltage Short circuit of the output voltage Safe torque off
Maximum supply current	0.1 A (power stage disabled) 6.8 A at 24 V 2.7 A at 48 V
Nominal output power	45 W at 24 V 47 W at 48 V
Peak stall torque	13.93 N.m at 24 V 13.93 N.m at 48 V
Continuous stall torque	8 N.m
Detent torque	6.5 N.m
Speed feedback resolution	12 points/turn motor 0.56° gearbox output
Accuracy error	+/- 1 point
Rotor inertia	430 kg.cm²
Maximum mechanical speed	93 rpm
Maximum radial force Fr	200 N
Maximum axial force Fa	80 N
Service life in hours	6000 h bearing
marking	CE
Type of cooling	Natural convection
Net weight	2.3 kg

Environment

Standards	IEC 61800-3, Ed 2 IEC 60072-1 EN 61800-3 : 2001-02 EN 61800-3:2001, second environment IEC 50178 IEC 61800-3 IEC 50347
Product certifications	cUL UL TÜV

Ambient air temperature for operation	4055 °C (with power derating of 2 % per °C) 040 °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	10.4 cm
Package 1 Width	18.0 cm
Package 1 Length	36.5 cm
Package 1 Weight	2.8 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

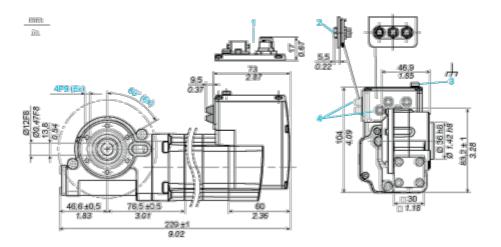
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

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Dimensions Drawings

Integrated Drive with Worm Gear

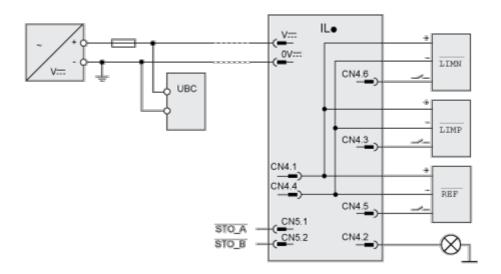
Dimensions



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

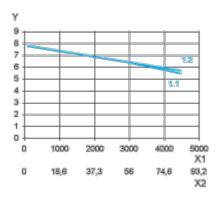
Connections and Schema

Connection Example with 4 I/O Signals



Performance Curves

Torque Characteristics



- X1 Speed of rotation of motor in rpm
- X2 Speed of rotation of gearing in rpm
- Y Torque in Nm
- 1.1 Max. torque at 24 V
- 1.2 Max. torque at 48 V