

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

ILE2T661PB1A6

! Discontinued on: Jul 28, 2023

! Discontinued

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	24 V 48 V
Network Type	DC
Communication Interface	Modbus TCP, integrated
Length	229 mm
Winding Type	Medium speed of rotation and medium torque
Electrical Connection	Printed circuit board 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

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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	Safe torque off Short circuit of the output voltage Overload of output voltage
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 50347	
	EN 61800-3 : 2001-02	
	EN 61800-3:2001, second environment	
	IEC 60072-1	
	IEC 50178	
	IEC 61800-3, Ed 2	
	IEC 61800-3	
Product Certifications	TÜV	
	cUL	
	UL	
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

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



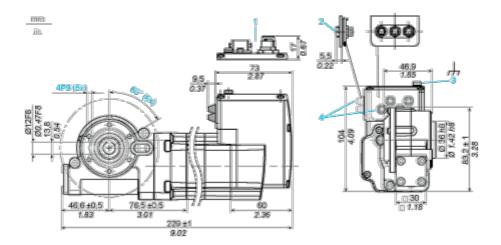
Certifications & Standards

Reach Regulation	REACh Declaration
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
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

Dimensions Drawings

Integrated Drive with Worm Gear

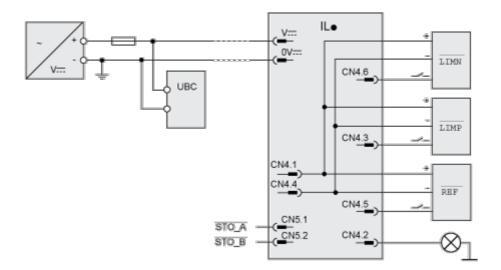
Dimensions



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

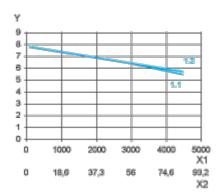
Connections and Schema

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