

# Product data sheet

Specifications



brushless DC motor, Lexium ILA ILE ILS, 24..48V- EtherNet/IP interface, L = 174mm- 92:1

ILE2K661PC1A7

Discontinued on: Oct 9, 2023

Discontinued

Product availability: Non-Stock - Not normally stocked in distribution facility

## 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
Phase	Single phase
[Us] Rated Supply Voltage	48 V 24 V
Network Type	DC
Communication Interface	Ethernet/IP, Integrated
Length	9.02 in (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	92:1 (735:5)
Nominal Speed	44 rpm 24 V 44 rpm 48 V
Nominal Torque	81.43 lbf.in (9.2 N.m) 24 V 81.43 lbf.in (9.2 N.m) 48 V

## Complementary

Transmission Rate	125, 250, 500 kbauds
Mounting Support	Flange
Motor Flange Size	2.60 in (66 mm)
Number Of Motor Stacks	1
Centring Collar Diameter	1.42 in (36 mm)
Number Of Mounting Holes	2
Mounting Holes Diameter	0.17 in (4.4 mm)
Feedback Type	BLDC encoder
Shaft End	Hole

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Second Shaft	Without second shaft end
Supply Voltage Limits	18...55.2 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	-3...4.5 V
Voltage State 1 Guaranteed	15...30 V
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 Overload of output voltage Short circuit of the output voltage
Maximum Supply Current	0.1 A power stage disabled) 6.8 A 24 V 2.6 A 48 V
Nominal Output Power	41 W 24 V 42 W 48 V
Peak Stall Torque	175.07 lbf.in (19.78 N.m) 24 V 175.07 lbf.in (19.78 N.m) 48 V
Continuous Stall Torque	102.67 lbf.in (11.6 N.m)
Detent Torque	108.86 lbf.in (12.3 N.m)
Speed Feedback Resolution	12 points/turn motor 0.33° gearbox output
Accuracy Error	+/- 1 point
Rotor Inertia	1270 kg.cm²
Maximum Mechanical Speed	54 rpm
Maximum Radial Force Fr	200 N
Maximum Axial Force Fa	80 N
Service Life In Hours	9000 h bearing
Marking	CE
Type Of Cooling	Natural convection
Net Weight	5.07 lb(US) (2.3 kg)

## Environment

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

Ambient Air Temperature For Operation	104...131 °F (40...55 °C) with power derating of 2 % per °C 32...104 °F (0...40 °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/s² 10...500 Hz) 10 cycles IEC 60068-2-6
Shock Resistance	150 m/s² 1000 shocks 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

## Ordering and shipping details

Category	US1PC5618288
Discount Schedule	PC56
Gtin	3606485204833
Returnability	No
Country Of Origin	DE

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.33 in (11.0 cm)
Package 1 Width	7.48 in (19.0 cm)
Package 1 Length	15.55 in (39.5 cm)
Package 1 Weight	5.88 lb(US) (2.667 kg)

## Contractual warranty

Warranty	18 months
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Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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




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[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

## Well-being performance

 Mercury Free	
 Rohs Exemption Information	<a href="#">Yes</a>
 Pvc Free	

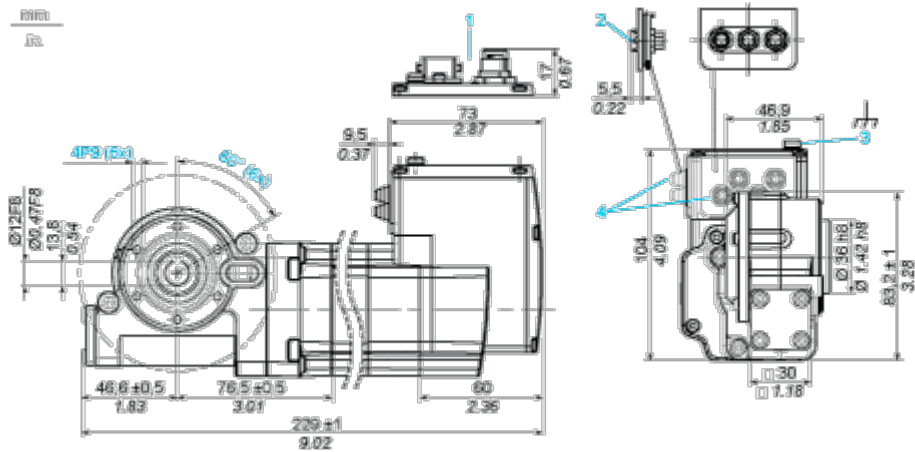
## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	<a href="#">End of Life Information</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Dimensions Drawings

### Integrated Drive with Worm Gear

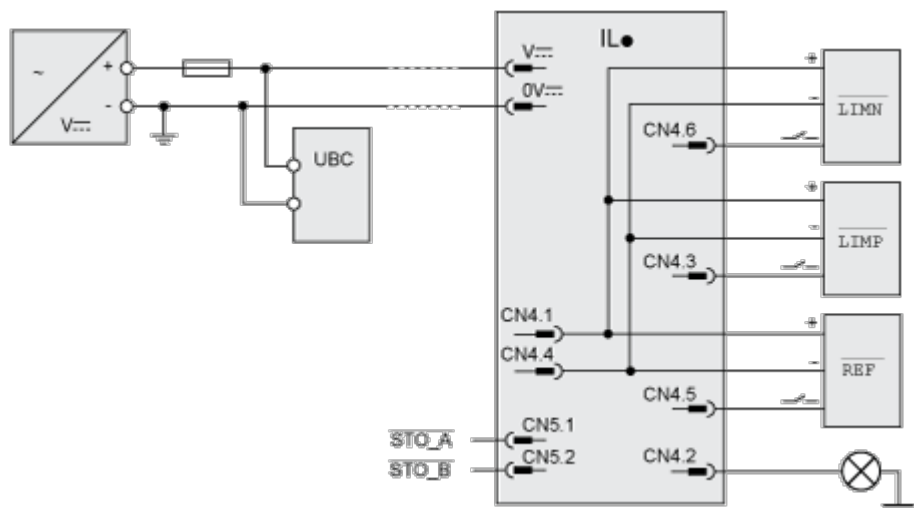
## Dimensions



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

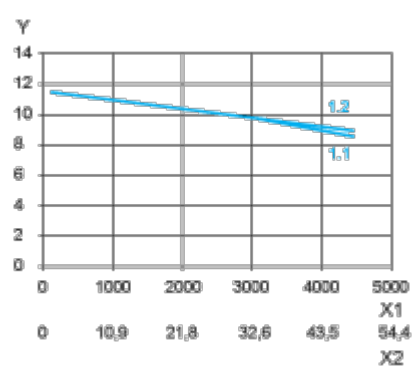
Connections and Schema

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