

## brushless dc motor 24..48V-EtherNet/IP interface - L = 174 mm-115:1

ILE2K661PC1A8

EAN Code: 3606485204840

#### 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	Ethernet/IP, 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	115:1 (3675:32)	
Nominal speed	35 rpm at 24 V 35 rpm at 48 V	
Nominal torque	10.6 N.m at 24 V 10.6 N.m at 48 V	

### Complementary

Transmission rate	125, 250, 500 kbauds
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	
	Safe torque off Short circuit of the output voltage	
	Short circuit of the output voltage	
Maximum supply current	0.1 A (power stage disabled)	
	6.8 A at 24 V 2.9 A at 48 V	
Nominal output power	37 W at 24 V 39 W at 48 V	
	59 W at 46 V	
Peak stall torque	24.72 N.m at 24 V	
	24.72 N.m at 48 V	
Continuous stall torque	14 N.m	
Detent torque	16.7 N.m	
Speed feedback resolution	12 points/turn motor	
	0.26° gearbox output	
Accuracy error	+/- 1 point	
Rotor inertia	1980 kg.cm²	
Maximum mechanical speed	44 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	
Product weight	2.3 kg	

### **Environment**

Standards	IEC 50178		
	EN 61800-3:2001, second environment		
	IEC 60072-1		
	EN 61800-3 : 2001-02		
	IEC 50347		
	IEC 61800-3		
	IEC 61800-3, Ed 2		
Product certifications	TÜV		
	UL		
	cUL		
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	11.0 cm
Package 1 Width	19.0 cm
Package 1 Length	39.5 cm
Package 1 Weight	2.646 kg

## **Logistical informations**

Country of origin

## **Contractual warranty**

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	420
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	C2ce416c-ac1e-4e66-863f-bde9b6d94d11
REACh Regulation	REACh Declaration
PVC free	Yes

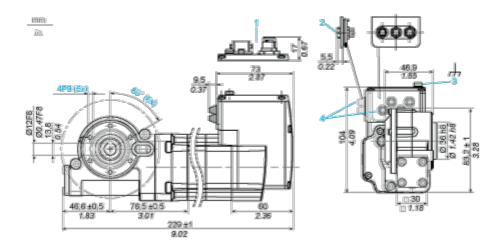
#### Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

#### **Dimensions Drawings**

#### **Integrated Drive with Worm Gear**

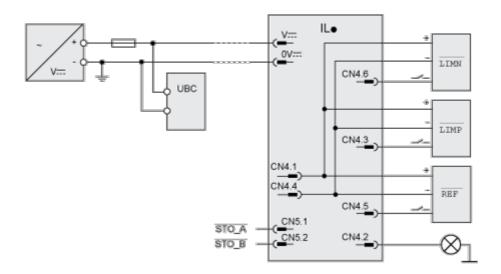
#### **Dimensions**



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

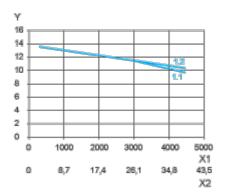
Connections and Schema

#### 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