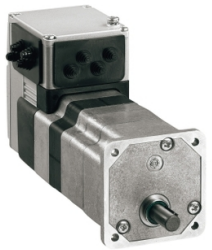
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Product datasheet

Specifications



brushless dc motor 24..48V- EtherNet/IP interface - L = 122 mm- w/o gearbox

ILE2K661PC1A0

EAN Code: 3606485204765

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	Ethernet/IP, 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	4800 rpm at 24 V 6000 rpm at 48 V
Nominal torque	0.26 N.m at 24 V 0.26 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	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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	8 mm
Shaft length	25 mm
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 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	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 at 24 V 3.8 A at 48 V
Nominal output power	131 W at 24 V 163 W at 48 V
Peak stall torque	0.43 N.m at 24 V 0.43 N.m at 48 V
Continuous stall torque	0.28 N.m
Detent torque	0.08 N.m
Speed feedback resolution	12 points/turn
Accuracy error	+/- 0.5 °
Rotor inertia	0.17 kg.cm²
Maximum mechanical speed	7000 rpm 6500 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
Product weight	1.4 kg

Environment

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Standards	EN 61800-3 : 2001-02 IEC 50178 EN 61800-3:2001, second environment IEC 60072-1 IEC 61800-3, Ed 2 IEC 61800-3 IEC 50347
Product certifications	cUL UL TÜV
Ambient air temperature for operation	40…55 °C (with power derating of 2 % per °C) 0…40 °C (without derating)
Permissible ambient air temperature around the device	105 °C power amplifier 110 °C motor
Ambient air temperature for storage	-25…70 °C
Operating altitude	<= 1000 m without derating
Relative humidity	15…85 % without condensation
Vibration resistance	20 m/s² (f= 10…500 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	36.5 cm
Package 1 Weight	1.7 kg

Logistical informations

Country of origin	DE

Contractual warranty

Warranty	18 months

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Environmental Data

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)	307
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

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

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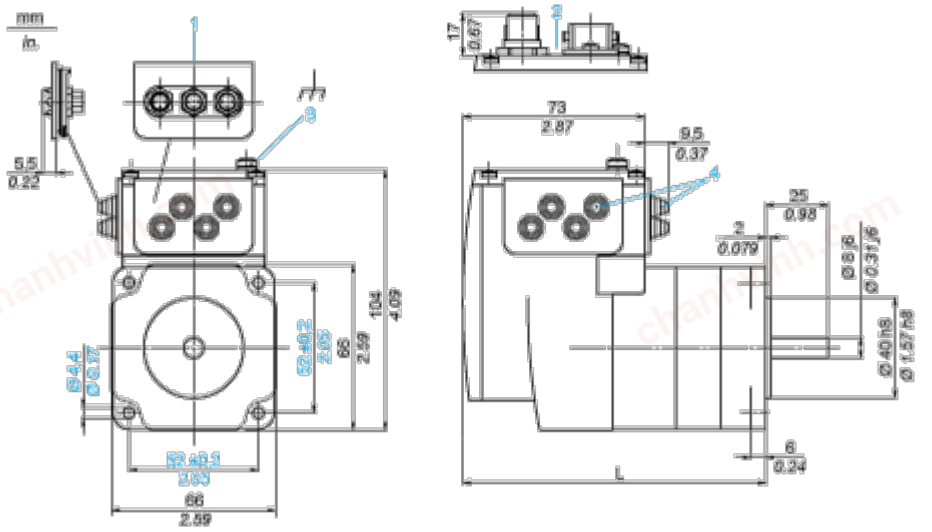
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Dimensions Drawings

Integrated Drive without Gearing

Dimensions



1 Accessories: I/O signal insert with industrial connectors

2 Option: industrial connectors

3 Earth (ground) terminal

4 Accessories: cable entries Ø = 3 ... 9 mm/0.12 ... 0.35 in.

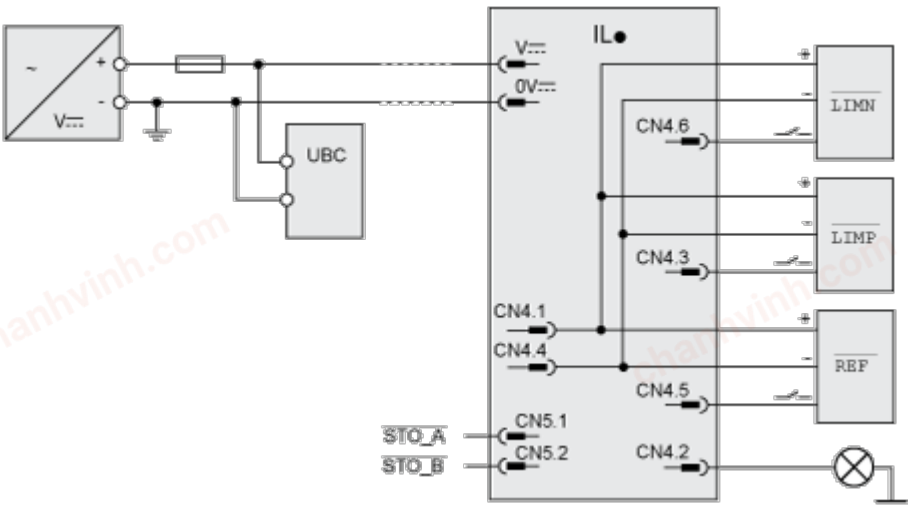
L 122 mm/4.80 in.

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Product datasheet ILE2K661PC1A0

Connections and Schema

Connection Example with 4 I/O Signals

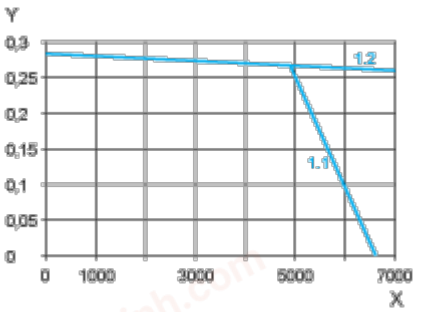


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Product datasheet ILE2K661PC1A0

Performance Curves

Torque Characteristics



X Speed of rotation in rpm

Y Torque in Nm

1.1 Max. torque at 24 V

1.2 Max. torque at 48 V