



brushless dc motor 24..48 V -Ethernet Powerlink interface - L = 122 mm -

ILE2P661PB1A0

! Discontinued on: 15 Jun 2023

only

! To be end-of-service on: 31 Dec 2026

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 Powerlink, integrated	
Length	122 mm	
Winding type	Medium speed of rotation and medium torque	
Electrical connection	Printed circuit board 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	100 Mbits
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	
Shaft end	Untapped	
Second shaft	Without second shaft end	
Shaft diameter	8 mm	
Shaft length	25 mm	
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 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.cm ²	
Maximum mechanical speed	6500 rpm 7000 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	
Net weight	1.4 kg	

Environment

Standards	IEC 60072-1 IEC 61800-3, Ed 2 EN 61800-3 : 2001-02 EN/IEC 50178 EN/IEC 61800-3 EN 50347 EN 61800-3:2001, second environment	
Product certifications	UL TÜV 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 EN/IEC 60068-2-6	
Shock resistance	150 m/s² 1000 shocks conforming to EN/IEC 60068-2-29	
IP degree of protection IP41 shaft bushing: conforming to EN/IEC 60034-5 IP54 total except shaft bushing: conforming to EN/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	35.5 cm
Package 1 Weight	2.3 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

	Mercury Free	
②	Rohs Exemption Information	Yes
	Pvc Free	

Certifications & Standards

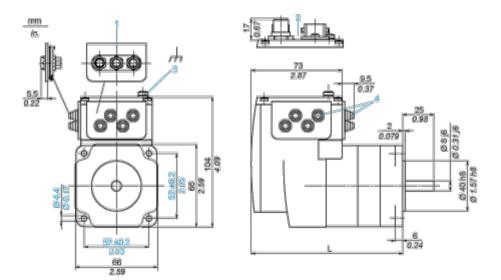
Circularity Profile	End of Life Information
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Environmental Disclosure	Product Environmental Profile
China Rohs Regulation	China RoHS declaration
Eu Rohs Directive	Pro-active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

19 Aug 2024

Dimensions Drawings

Integrated Drive without Gearing

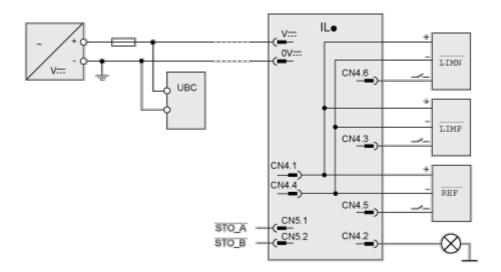
Dimensions



- 1 Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries $\emptyset = 3 \dots 9 \text{ mm/0.12} \dots 0.35 \text{ in.}$
- L 122 mm/4.80 in.

Connections and Schema

Connection Example with 4 I/O Signals

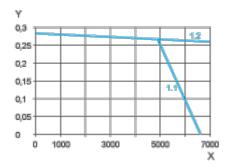


Product datasheet

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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