ILE2K661PC1A6

brushless DC motor, Lexium ILA ILE ILS, 24 to 48V, EtherNet IP interface, industrial connector, 174mm, 54:1





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	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	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
Nominal speed	75 rpm at 24 V 75 rpm at 48 V 6 N.M at 24 V

Complementary

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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	

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.

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.

It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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
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

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

PCE
1
10.4 cm
18.0 cm
36.5 cm
2.3 kg



Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
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
PVC free	Yes

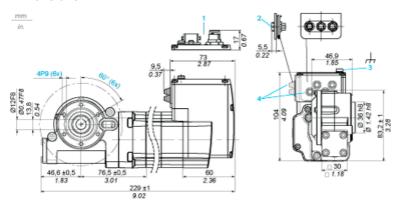
Warranty	18 months	

Product data sheet **Dimensions Drawings**

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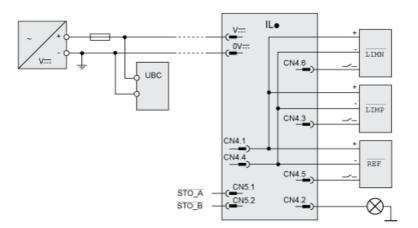
Integrated Drive with Worm Gear

Dimensions



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

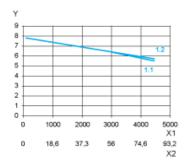
Connection Example with 4 I/O Signals



Product data sheet Performance Curves

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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