ILE2E661PB1A0

brushless DC motor, Lexium ILA ILE ILS, 24 to 48V, EtherCAT interface, 122mm, without gearbox





Main

Lexium integrated drive
Motion integrated drive
ILE
Brushless DC motor
6
Single phase
24 V 48 V
DC
EtherCAT, integrated
122 mm
Medium speed of rotation and medium torque
Printed circuit board connector
Without
Without
1:1
4800 rpm at 24 V 6000 rpm at 48 V
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.cm²
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 61800-3, Ed 2
	IEC 61800-3
	IEC 60072-1
	EN 61800-3 : 2001-02
	EN 61800-3:2001, second environment
	IEC 50347
	IEC 50178
Product certifications	TÜV[RETURN]UL[RETURN]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	105 °C power amplifier
device	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	10.5 cm	
Package 1 Width	17 cm	
Package 1 Length	24 cm	
Package 1 Weight	1.668 kg	
Unit Type of Package 2	S03	

Number of Units in Package 2	4
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.381 kg
Unit Type of Package 3	S04
Number of Units in Package 3	8
Package 3 Height	30 cm
Package 3 Width	40 cm
Package 3 Length	60 cm
Package 3 Weight	14.596 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

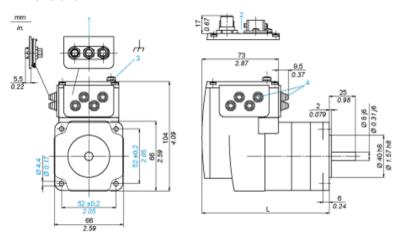
Contractual warranty

- Contractada Harrista		
Warranty	18 months	

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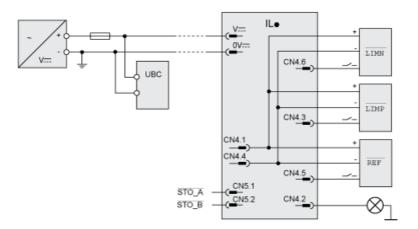
Integrated Drive without Gearing

Dimensions



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

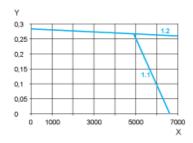
Connection Example with 4 I/O Signals



Product data sheet Performance Curves

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Torque Characteristics



- X Y Speed of rotation in rpm
- Torque in Nm
- 1.1 Max. torque at 24 V
- 1.2 Max. torque at 48 V