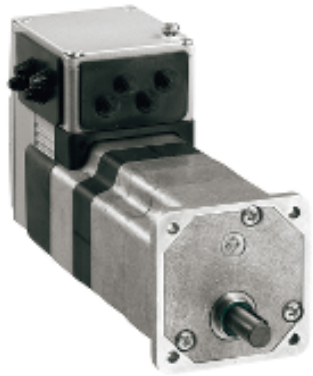
Product data sheet
Characteristics

ILE2K661PC1A0
brushless DC motor, Lexium ILA ILE ILS, 24..48V- EtherNet/IP interface, L = 122mm- w/ o gearbox



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
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
Net weight	1.4 Kg

Environment

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[RETURN]UL[RETURN]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

Offer Sustainability

Recyclability potential, in %	88
Total lifecycle Carbon footprint	198 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	18.72118139695448
Carbon footprint of the manufacturing phase [A1 to A3]	19 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.6043320562113526
Carbon footprint of the distribution phase [A4]	0.6 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.6020193899952991
Carbon footprint of the installation phase [A5]	0.6 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	175.6503196792523
Carbon footprint of the use phase [B2, B3, B4, B6]	176 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	2.1559538553148276
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	198
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	C2ce416c-ac1e-4e66-863f-bde9b6d94d11
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised