Product datasheet

Specifications





integrated drive ILA with servo motor - 24..48 V - EtherNet/IP indus connector

ILA2K571PC1F0

Main

Range of product	Lexium integrated drive
Product or component type	Motion integrated drive
Device short name	ILA
Motor type	AC synchronous servo 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	190.8 mm
Winding type	Medium speed of rotation and medium torque
Electrical connection	Industrial connector
Holding brake	With
Gear box type	Without
Nominal speed	3200 rpm at 24 V 5100 rpm at 48 V
Nominal torque	0.44 N.m
Holding torque	1.2 N.m holding brake

Complementary

,	
Transmission rate	125, 250, 500 kbauds
mounting support	Flange
Motor flange size	57 mm
Number of motor stacks	1
Centring collar diameter	50 mm
Centring collar depth	1.6 mm
Number of mounting holes	4
Mounting holes diameter	5.2 mm
Circle diameter of the mounting holes	66.6 mm
Feedback type	Single turn encoder
Shaft end	Untapped

Without second shaft end
9 mm
20 mm
1855.2 V
5000 mA maximum continuous 7000 mA peak
16 A
RS485 Modbus TCP (9.6, 19.2 and 38.4 kbauds)
4 signals (each be used as input or output)
-34.5 V
1530 V
10 mA at 24 V for safety input 2 mA at 24 V for 24 V signal interface
2325 V
100 mA per output 200 mA total
Short circuit of the output voltage Overload of output voltage Safe torque off
0.62 N.m
0.44 N.m
16384 points/turn
+/- 0.05 °
0.165 kg.cm²
89 N
104 N (force pressure) 104 N (tensile force)
20000 h bearing
10 W
14 ms
13 ms
CE
Natural convection
1.4 kg

Standards	EN/IEC 50178	
	IEC 60072-1	
	EN/IEC 61800-3	
	EN 50347	
	IEC 61800-3, Ed 2	
	EN 61800-3:2001, second environment	
	EN 61800-3 : 2001-02	
Product certifications	TÜV	
	UL	
	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	2.1 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

②	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	

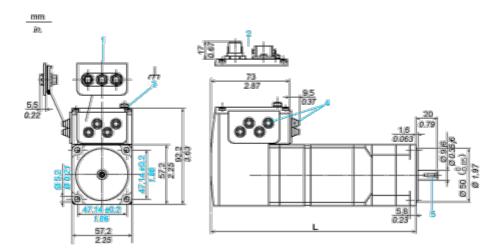
Certifications & Standards

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

Dimensions Drawings

Integrated Drive with Holding Brake

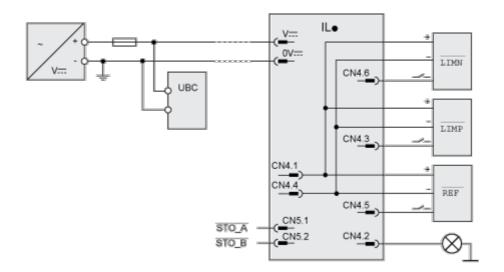
Dimensions



- 1 Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries $\emptyset = 3 \dots 9 \text{ mm}/0.12 \dots 0.35 \text{ in.}$
- 5 Centring hole DIN 332 DS M3
- L 190.8 mm/7.51 in.

Connections and Schema

Connection Example with 4 I/O Signals

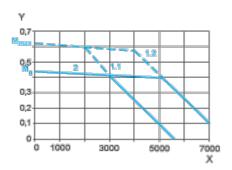


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Performance Curves

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
- 2 Continuous torque