

TYPES of EQUIPMENT / INSTRUMENTS to be HOUSED inside the ENCLOSURES

series
CCL
CPL

Enclosures Series CCL/CPL Model K... (without Intrinsically Safe -I.S.- circuits/apparatus)

- Max Voltage: 1000 V (a.c./d.c.)
- Current: 12 A ÷ 240 A
- Minimum conductor section: 1,5 mm²
- Max Current Density:
 - 3 A/mm² for sections up to 10 mm²
 - 2 A/mm² for sections > 10 mm²
- All electrical equipment shall conform to their respective IEC/CENELEC Standards concerning the characteristics and the operating mode.
- The electric equipment installed inside the enclosure shall be such that their dimensions allow, at any cross-section, at least 40% of free surface.
- In case of equipment conceived on electronic boards the distance between two parallel boards is ≥30 mm.
- Distance between any electronic component shall be ≥ 15 mm.
- Electrical equipment contained in the enclosure shall not be intrinsically safe, it shall not include capillaries or other non electric connections
- In case of presence of capacitors, when the voltage goes off they must be discharged within their own circuit in less than one second.

Enclosures Series CCL/CPL Model KI... (with Intrinsically Safe -I.S.- circuits/apparatus)

It is essential to consider the following, in case of presence of intrinsically safe circuits and/or I.S. apparatus:

Protection Mode	GAS:	Ex d [Ia Ga] IIC T6 Gb
Protection Mode	DUST:	Ex tb IIIC [Ia Da] T85°C Db
Group / Category	II 2 (1) GD	
Ambient Temperature	-20°C ÷ +40°C	
Temperature Class	T6	

• ELECTRICAL RATINGS

- Max Voltage: 660 V a.c. - 440 V d.c.
- Max Current: 60 A

• WIRING

The internal wiring, placed in suitable ducts, shall be made directly on the barriers without interposing terminals, the relevant insulation must have a minimum thickness >0.5 mm and shall include a metallic braid to firmly grounded.

• MINIMUM DISTANCES

- Between two different I.S. circuits: >6 mm
- Between an I.S. circuit S.I. and Ground: >3 mm
- Between I.S. and non I.S. circuits: >50 mm

- Max Power Voltage of I.S. circuit: <250 V (with a double insulation cable);
- Presumed power supply short circuit current: <1500 A (unless otherwise specified).

• I.S. EQUIPMENT FASTENING

The interface barriers are installed on a metal DIN rail fixed to the bottom of the enclosure by screws and lock washer or, as alternative, on the supporting plate also fixed the bottom of the enclosure by screws and lock washer.