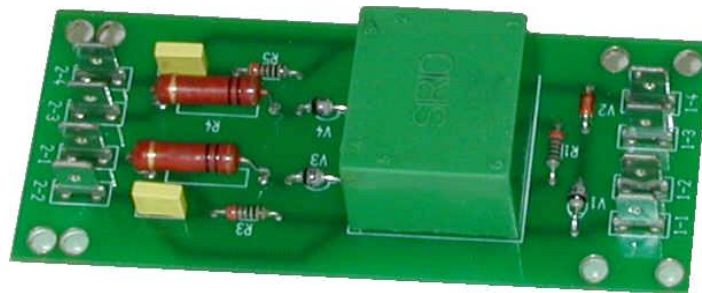

ARCTI-CP



Triggering board for thyristors

The ARCTI-CP board enables to dispatch control pulses to 2 thyristors.

A pulse transformer ensures the isolation between the power and the control and between the 2 outputs.



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1. ELECTRICAL SPECIFICATIONS

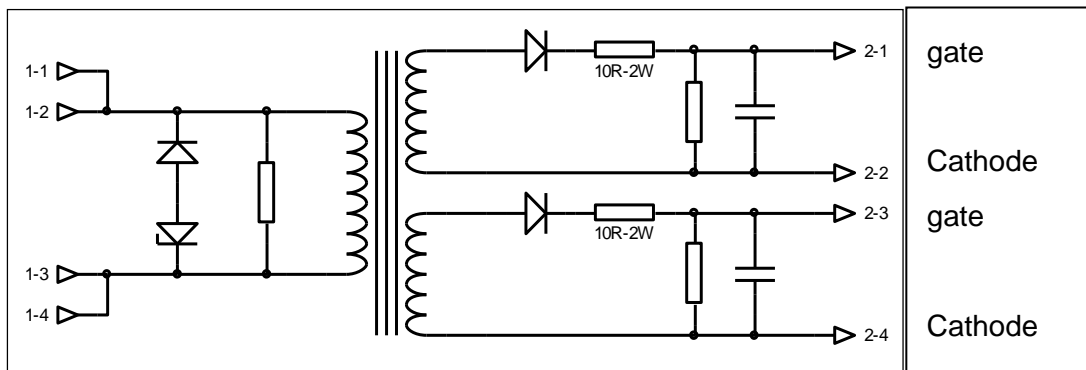
The ARCTI-CP is normally tropicalised.

1.1. Pulse transformer

Unless otherwise specified all data are given for 25°C.

| Symbol | Parameters | Min. | Typ. | Max. | Unit |
|-------------------|----------------------------------------|------|-------|------|-----------|
| n | Transformation ration | | 1:1:1 | | |
| $\int U \cdot dt$ | Tension-time area ⁱ | | 1000 | | $\mu V s$ |
| Ts | Rise time to secondary ⁱⁱ | | | 1 | μs |
| I _{max} | Maximum peak current | | 2 | | A |
| LP | Inductance to primary | | 5 | | mH |
| CK | Capacitance coupling ⁱⁱⁱ | | 190 | | pF |
| RP | Resistance of the primary winding | | 0.4 | | Ω |
| RS | Resistance of the secondary windings | | 0.4 | | Ω |
| UP | Dielectric test voltage ^{iv} | | 3 | | kVAC |
| Uis | Maximum operating voltage ^v | | 380 | | VAC |

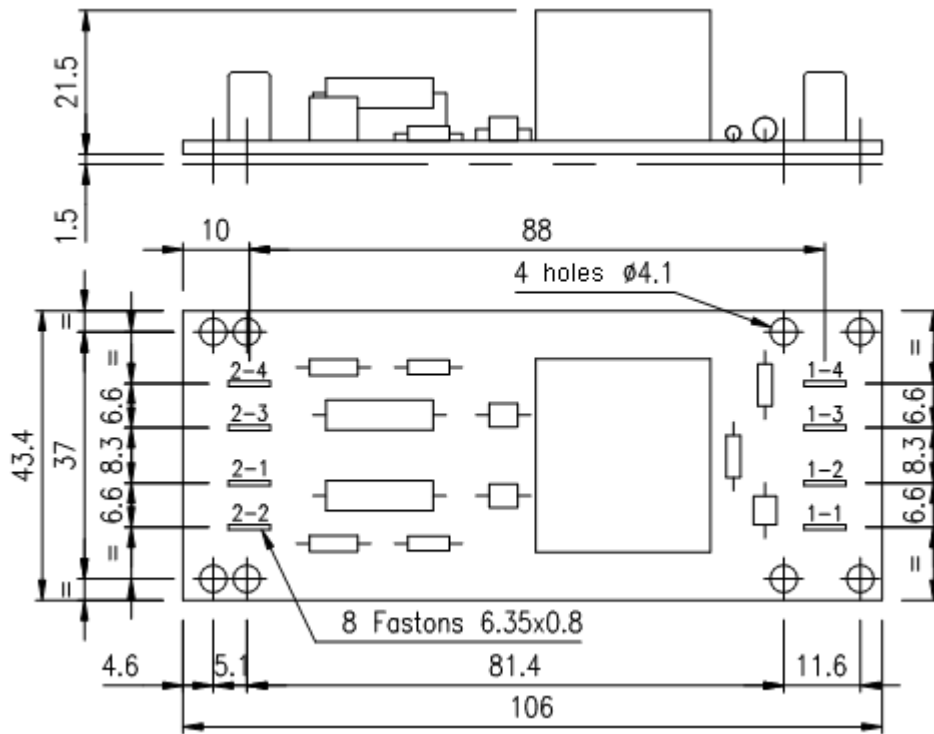
2. ELECTRICAL DIAGRAM



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3. MECHANICAL SPECIFICATIONS



Nota: Connection with "FASTON" 6.3*0.8mm terminals.

Transformer housing self-extinguishing (UL94 homologation), vacuum impregnation.

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- ⁱ Minimum « tension-time » area which can be transferred to the off-load secondary, in case of unipolar pulses.
- ⁱⁱ Rise time of the current pulse to the secondary with an operating current equal to I_{max} .
- ⁱⁱⁱ Coupling capacitance between 2 windings.
- ^{iv} Between 2 windings, at 50Hz - 1min. Non-repetitive test.
- ^v Maximum operating voltage allowed between 2 windings.

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