

MAGNETO-THERMAL PROTECTION DEVICE FOR 6 ELECTRIC LOADS

2 YEARS WARRANTY

The IPC device realizes the functionality of a magneto-thermic switch for six distinct electric loads.

It is equipped with two digital input for an external control and two general allarms for generics fault signalling.

It also has the visualization of overload and short circuit on the device's display.

The IPC is usually coupled with a NEX or NEXs device to control a fan cooling system.



Technical specifications

Device power supply

- nominal line voltage and frequency: 24 ÷ 380 Vcc and 24 ÷ 260 Vac at 40 ÷ 60 Hz frequency
- maximum line voltage: 20 ÷ 265 Vac and 20 ÷ 390 Vcc
- Vcc with reversible polarity
- maximum power consumption 5 VA
- Protection against electrical and magnetic noises and line disturbs

Loads power supply

- nominal 24 ÷ 250 Vac at 40 ÷ 60 Hz frequency
- maximum current 2 A per channel

Inputs

- 2 digital input for contact free by voltage (Automatic channels enabling input). **Each input enables all the loads programmed to operate in automatic**

Connections

- Connections with removable clamps for 1,5 mm² section wires with 5 mm pitch at 8A/250Vac, and removable clamps for 1,3 mm² section wires with 3,5 mm pitch at 8A/130Vac (only for digital inputs)

Outputs

- 2 output relays with channel abnormality signal or channel alarm
- 6 power supplies for loads with magnetothermic control each

Device dimensions

- Container dimensions: 96 x 96 mm compliance to unification law DIN 43770 and maximum length 105 mm
- Assembling on the front of the electrical panel
- Panel cut-out 92 mm x 92 mm

- P P O self-extinguishing box
- Frontal panel in anti-scratch polyester with tactile keyboard and signaling led

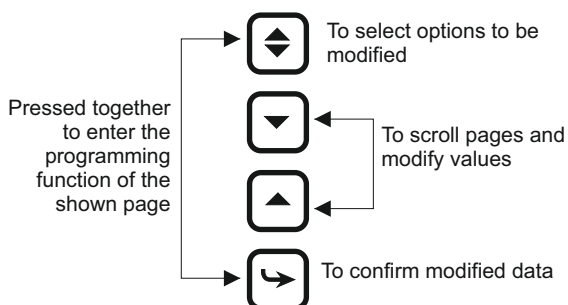
Features

- Visualization on 16x2 back lighted LCD to show the functionality of loads and the eventual current absorption
- Visualization of power supply of loads
- Channel selection for manual /automatic/on/off selection
- Digital signal acquisition to activate automatic selected loads
- Magnetothermic function for each channel with alarm visualization on display, with led and alarm relays
- Language selection between italian, english, german and french

Led

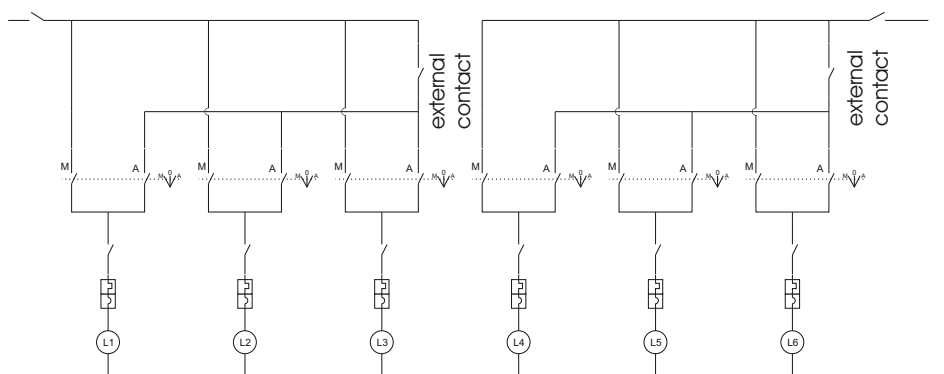
- { input enable status
- } Short circuit alarm
- } Overload alarm
- * General Allarm

Buttons

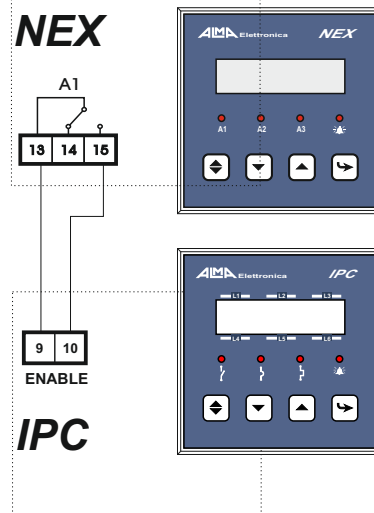


- Display contrast adjustment
- 3 Leds to visualize digital input condition, short circuit and overload.
- Alarm reset by keyboard
- Working temperature from - 20 °C to +65 °C
- Humidity under 95% without condensation
- Compliance to CE requirements
- User data's memorization for 10 years without power supply
- Self diagnosis of functionality
- Alarm signaling for malfunction or wrong setup of user data

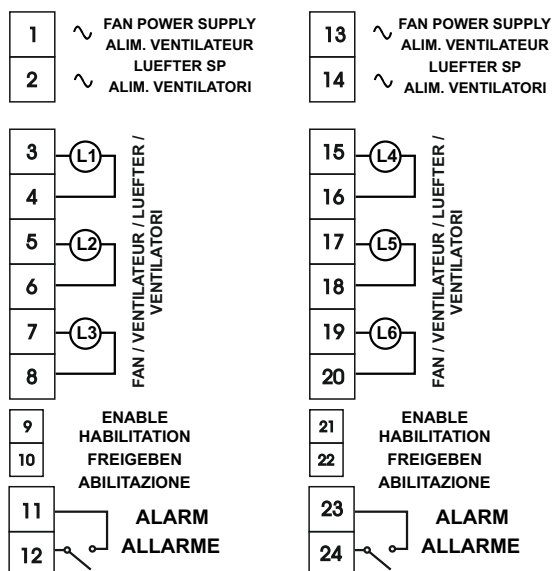
Electric equivalent circuit



Example connection



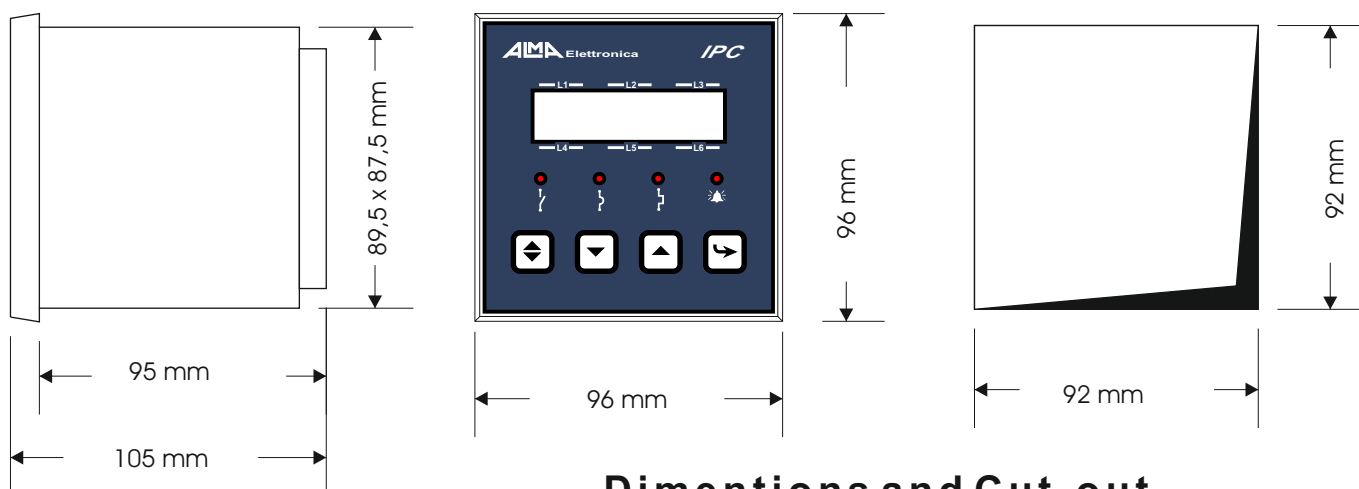
Electrical connection



POWER SUPPLY
ALIMENTATION
EINSPEISUNG
ALIMENTAZIONE



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Dimensions and Cut-out

Rev 2.0