



THREE-PHASE GRID

DISPLAY AND PROTECTION

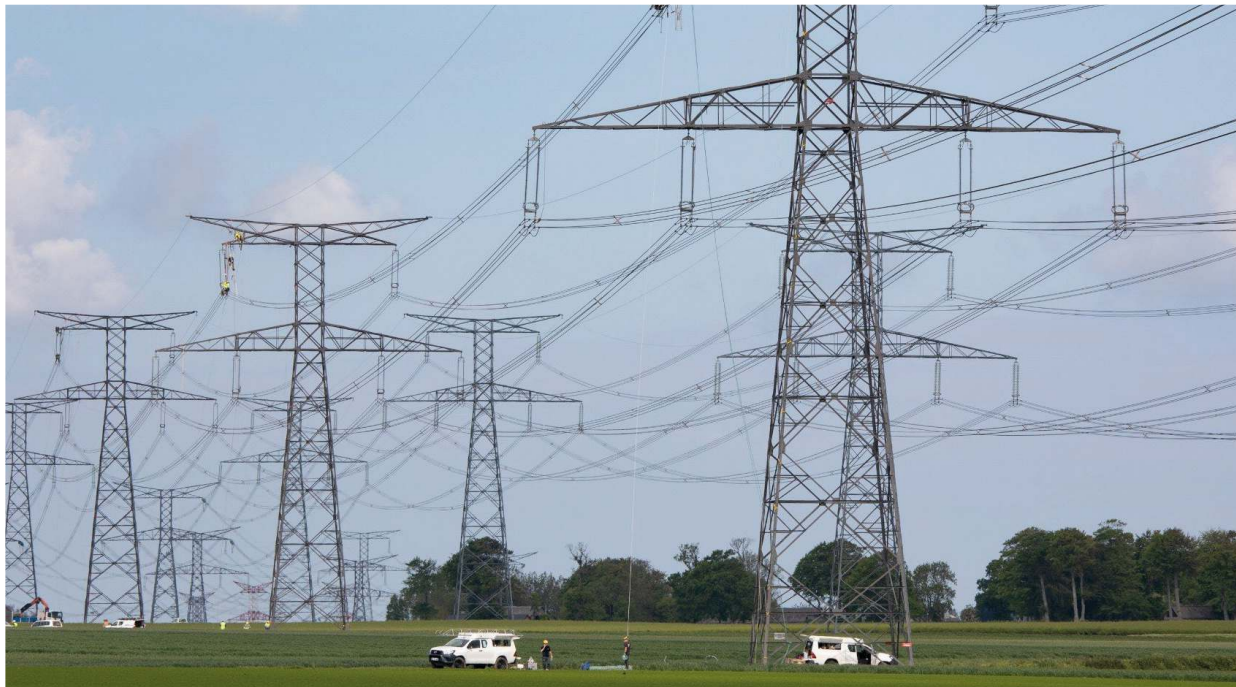
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MADE IN FRANCE



Each piece is tested one by one

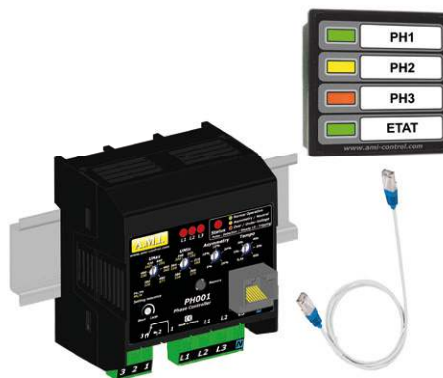


Three-phase protection



PAN35-55-13

Phase presence display for three-phase



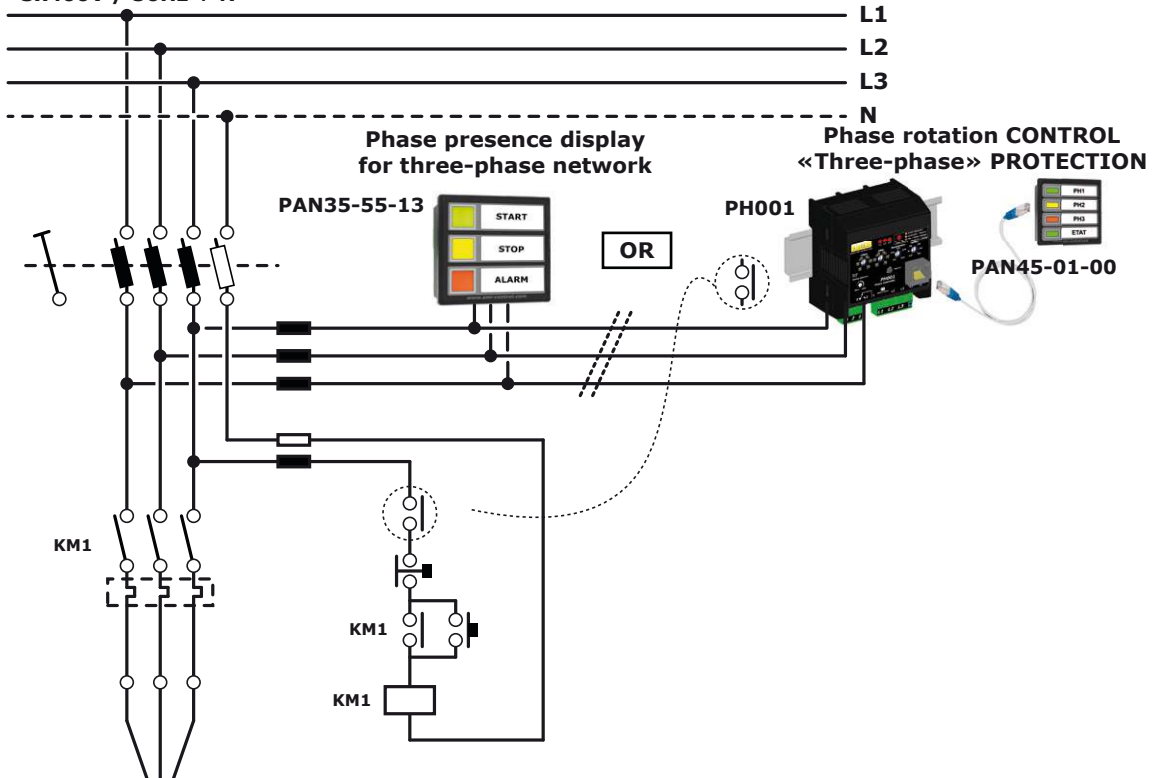
PH001 + PAN45-01-00

Phase rotation CONTROL «Three-phase» PROTECTION





Three-phase network
3x400V / 50Hz + N





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PHASE PRESENCE DISPLAY FOR THREE-PHASE



PHASE PRESENCE DISPLAY FOR THREE-PHASE PAN35-55-13 :

The PAN35-55-13 is used to indicate the presence of the 3 phases on three-phase network. In DIN 48x48 format, with bracket mounting, it is equipped with 3 high-luminosity LEDs.

- Possibility to select one color among 7 for each of the LEDs to comply with local habits.
- Removable front label that can be easily created by the user.

OPERATION :

The PAN35-55-13 is a "capacitor" technology version. This concept of energy transformation associated with long-life LEDs, ensures high luminosity with practically zero heating. In order to avoid electrocution during an intervention (due to the residual voltage in the capacitors), each capacitor is equipped with fast discharge resistors.

The purpose of an LED (or a light) is to indicate whether information is present or not.

- If voltage is present, the LED must be on.
 - If the voltage is absent, the LED must be off.
- But what if the voltage is too low?

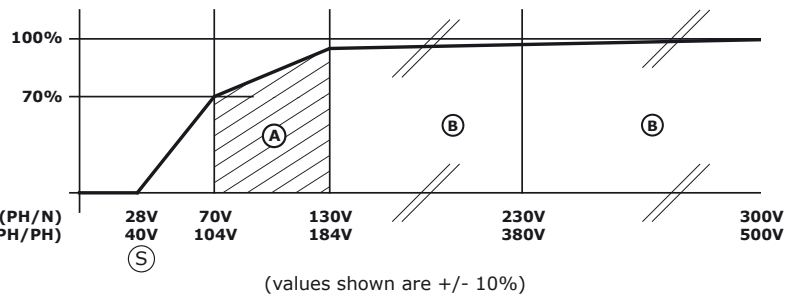
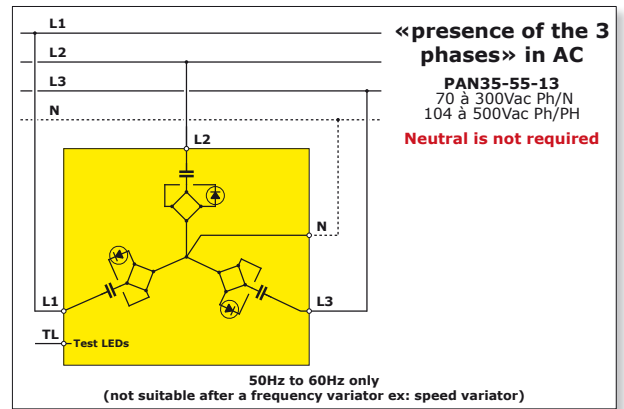
LEDs have undeniable qualities: longevity, very low consumption, high brightness. But, on the other hand, they can bring inconvenience.

Their very high sensitivity added to their low consumption allow them to light up under a very low voltage that can mislead an operator.

It often happens that a leak or a return voltage is present on the installation, generating a residual voltage of a few volts when it should be zero.

A minimum ignition threshold (S) is integrated in order to avoid untimely ignition of the LEDs (low glow) in the presence of residual voltage. The LEDs only light up if the voltage present is greater than this threshold.

On request, this threshold can be modified.



On the diagram, the correct brightness (70%) will be reached at the minimum operating voltage.

- In the ignition start area (A), the white color may be pink. Normal luminosity is reached from 50% of the nominal voltage.
 - In the area (B) the luminosity will be constant.
- In «LED test» use and in order to limit general consumption in the case of many displays, the brightness is reduced.

PAN35-55-13 Phase presence display

PRODUCING LABELS :

Labels are ordinary paper sheets that can be slid into a transparent pocket included in the thickness of the front face.

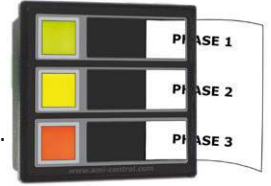
A blank label is supplied with each unit.

Labels can be handmade, or draw on the screen of the PC and produced with a colour printer (laser or ink-jet).

The PC software allows to create labels including images, allows to save and duplicate the achievements. This PC software is FREE. It is possible to load it on our website :

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For high humidity countries, the printing on plastic sheets is recommended.



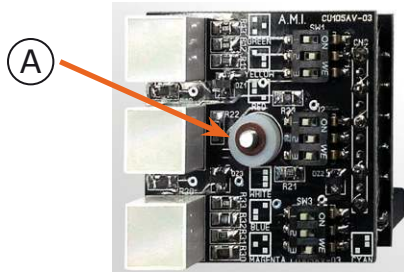
PAN35

LEDS COLOR SETTING :

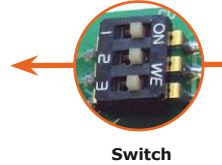
A display choice of 7 colors per LEDs is possible. This choice is selectable using switches on the panel front face.

You have a choice of the following colours :

Red, Green, Yellow, Blue, White, Cyan, Magenta.



Front view hood removed



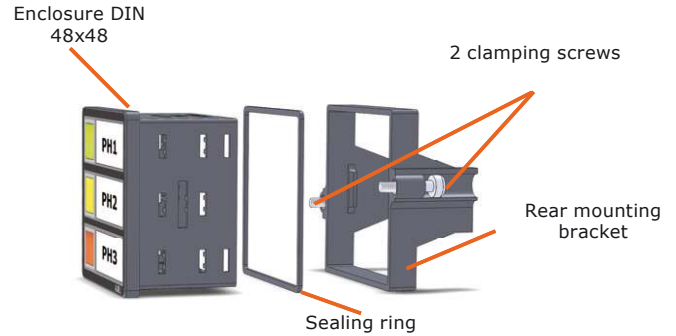
Switch

	OFF	ON	
Bleu Blue	1 2 3		
Vert Green	1 2 3		
Rouge Red	1 2 3		
Jaune Yellow	1 2 3		
Magenta	1 2 3		
Cyan	1 2 3		
Blanc White	1 2 3		
Eteint Off	1 2 3		

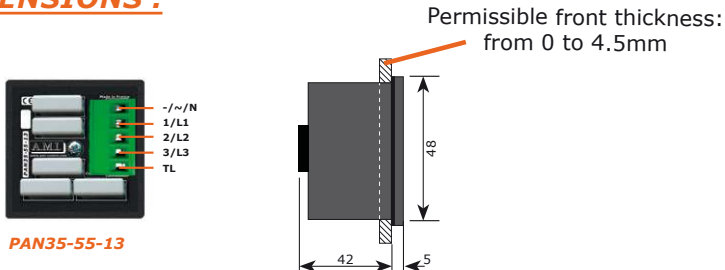
- For safety reasons on models powered by high voltages such as the **PAN35-55-13**, the connection cables must be fitted with insulating end caps covering the cable insulation.
- For safety, the switches are located at the front of the box. To reach them, it is necessary to remove the "printed circuit" block. Lift the screw (A) and extract the block from the rear.
- The «Test Leds» function will only be active if the phase supplying the «Test Leds» button is present.

Supply	70V - 300V PH/N 104V - 500V PH/PH
Power consumed	2VA
Frequency	50/60 Hz
Enclosure	Front in polycarbonate, housing in polyamide PA66 30gf
Color	Black
Sealing	front IP65
Flame resistance	UL94 class V2
Surface insulation	10 ¹⁵ Ohms/cm
Temperature in use / storage	-20°C / +60°C / -20°C / +70°C
Humidity in use / storage	90% non-condensing / 70%
Weight	60g

AC use: 50 Hz to 60 Hz only
(not suitable after a variable frequency drive expl: variable speed drive)

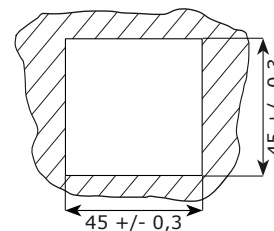


DIMENSIONS :



PAN35-55-13

CUT-OUT :



Connections :

This product is powered by high voltage.

The greatest care must be taken in the connection.

The use of ferrules with insulation on each of the wires, is essential.