

# T-RS45 / 225PC 3 phase multifunction relay

240/440V ac 50Hz. ( 60Hz. on request )



Version	45A	65A	85A	125A	150A	180A	225A
Voltage supply	240-440V ac 50Hz. (60Hz. on request )						
Electrical isolation	3500V						
I2t max. (t=10ms)	0,75KA	1,5KA	2,8KA	5,7KA	11,4KA	37,5KA	55KA
Speed Fuse	3x63A	3x80A	3x100A	3x160A	3x200A	3x250A	3x280A
Voltage SCR	1200V pk						
3 Fan	NO	SI	SI	SI	SI	SI	SI

## MAIN FEATURES :

Static Relay **T-RS PC** series are built to operate within a control cabinet at 100% of rated current and ambient temperature of 45 ° C. Have within them the speed fuses for protection against short circuit and varistors and RC the overvoltage protection.

This static relay is composed of three independent bodies wired to an external modular control board with moretti to extraction for easy installation and maintenance.

Using two antiparallel power SCRs for switching the current to the loads. They can be programmed via DIP-SWITCH to operate in Zero-crossing or Phase Angle. They are suitable for the control of resistive or inductive loads.

These versions come with power connection (UL 116Amp. 600V) and structure entirely in aluminum.

They are able to carry out the preheat Phase Angle and then automatically switch to zero-crossing.

Are ventilated versions from 65 and 85 Amp. In addition, the fan is activated by the integrated probe at 42 ° C of the heat sink, thereby limiting Improper use which causes of the accumulation of impurities in the heat exchange surfaces.

The drive functions are performed with the synchronism and signaled via externally visible LEDs.

In case of incorrect synchronization, the breakage of at least one fuse and overtemperature of a heat sink is activated an alarm contact.

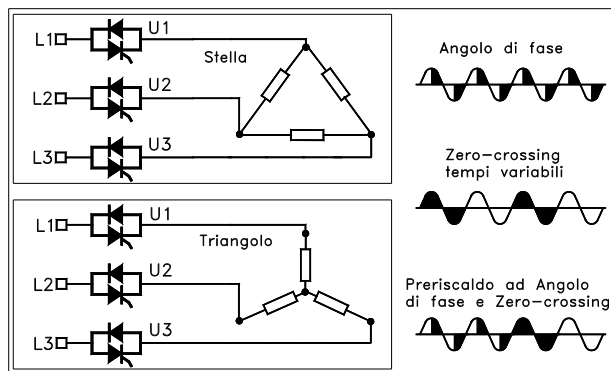
Via DIP-SWITCH located on the board, you can set both the control signals and 5 different actuation methods.

Two functions with logic control (SSR) between 3-24VDC 2mA  
three functions with analog controls (0-10V DC and potentiometer, 0-20mA, 4-20mA). (How FUNZIONUI table).

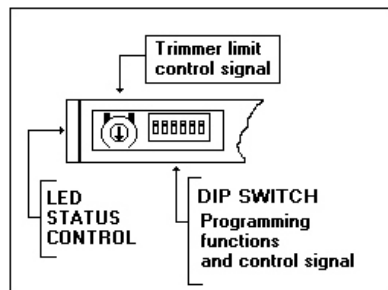
## TECHNICAL SPECIFICATIONS:

- Power supply board 24V DC 6VA (version 45A).
- Power supply board 24V DC 15VA (versions 65 to 225Amp.).
- Programmable control signals: 0-10V and power 10K ohm 0-20mA, 4-20mA or logic input 3-24V DC 2mA.
- Trimmer for the limitation of the analog control signal.
- Warning: include fuse failure, lack synchronism phases and over temperature heatsinks. One alarm relay 2A 48V exchange
- Protection against overvoltages with internal "RC" suppressors.
- Temperature operational -10 / + 45 ° C ambient.

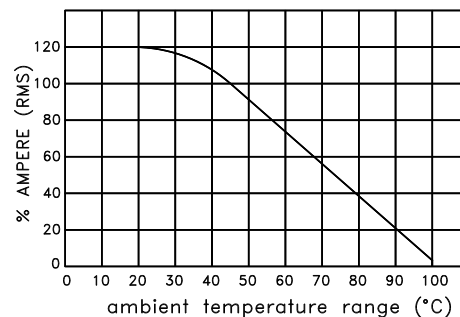
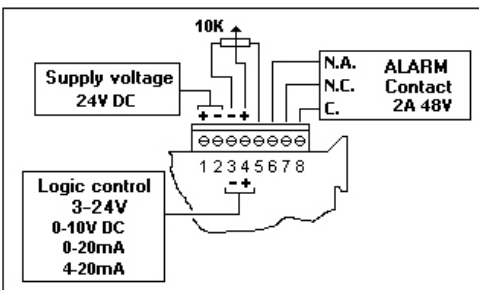
## Connections of the load



## Programming section



## Control connections



## Diagnostic leds and operation:

Five control leds are visible on the front panel.

- **ON led:** Flashes when the unit is powered and waits for the first control signal.
- **Synch led:** turns on when the synchronism is correct or flashes if it is incorrect.
- **Control led:** turns on when there is an active control signal. In the case of the zero-crossing programs 3 and 4, it will turn on and off with the proportional times generated by the control signal.
- **Preheat led:** turns on in program 4 in the presence of preheating, simultaneously to the Control led for the entire duration of preheating.
- **AL led:** activates in the event of incorrect synchronism, fault of at least one fuse or overtemperature heatsinks. The alarm relay simultaneously activates (terminals 6,7,8).