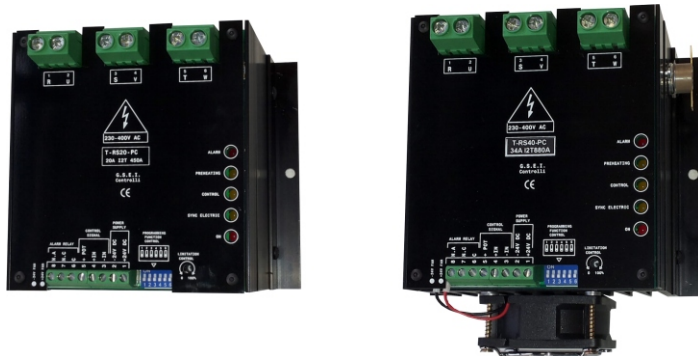
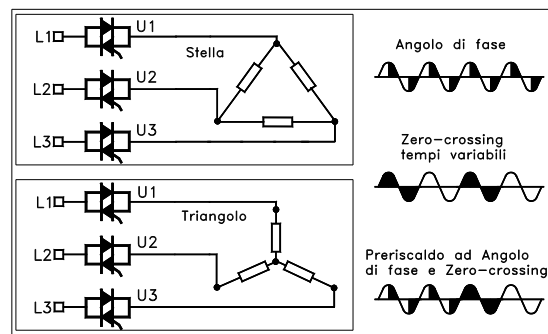


T-RS20/40PC 3 phase multifunction relay 230/400V AC



Connections of the load



These versions are equipped with trigger board that actuates three groups of power Triacs. Via DIP-SWITCHES located on the board, you can set both control signals and 5 different actuation methods.

Two functions with logic control (SSR) between 3-24VDC 2mA:

- 1) Zero crossing control, suitable to control balanced three-phase resistive loads with initial draw not over rated 20%.
- 2) Control with phase-angle soft with ramp time from 0-100% of 1 Sec, suitable to control balanced three-phase inductive loads as primary of transformers and loads with strong initial draw.

Three functions with analog controls (0-10V DC and potentiometer, 0-20mA, 4-20mA):

- 3) Zero crossing control with three programmable cycle times, 0.25 - 0.5 - 1 Sec - suitable to control balanced three-phase resistive loads with initial draw not over rated 20%.
- 4) Preheating function with phase angle control for a period of 5 Sec. And subsequent switch to function 3 zero crossing. Automatic recovery of the preheating in case of lack of control signal, lack of line voltage for a minimum of 20ms. Suitable for controlling three-phase resistive loads with a strong initial draw closely linked to the temperature, such as shortwave infrared lamps.
- 5) Phase angle control with soft-start from 0 to 100% in 1 sec. Automatic recovery of the soft-start in case of lack of line voltage for a minimum of 20ms. Suitable for controlling three-phase inductive loads, such as primary of transformers or resistive loads such as shortwave infrared lamps in surface treatment in motion.

MAIN TECHNICAL SPECIFICATIONS:

All actuation functions are performed with synchronism control and reported via externally visible leds. In the case of incorrect synchronism or a fault of at least one protection fuse, an alarm contact is activated.

TECHNICAL SPECIFICATIONS:

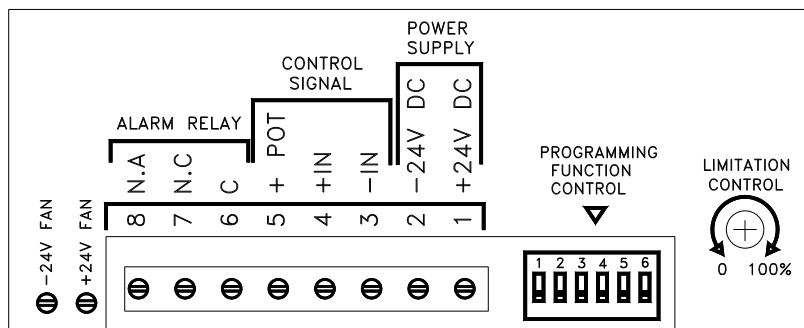
- Card Power Supply T-RS20PC 24V DC 2VA.
- Card Power Supply T-RS40PC 24V DC 6VA.
- Programmable control signals: 0-10V and power 10K ohm 0-20mA, 4-20mA or logic input 3-24V DC 2mA.
- Trimmer for the limitation of the analog control signal.
- Binding synchronization system with one changeover alarm contact 2A 48V.
- Protection against overvoltages with internal "RC" suppressors.
- Ventilation Forced to version T-RS40PC.
- Thermostat 80 ° C (NC 2A 230V) for the version T-RS40PC.

SWITCHED CURRENTS:

T-RS20PC (20A I2T450A) 230/400V AC.
T-RS40PC (34A I2T880A) 230/400V AC.

MAX. operating temperature 45°C environment

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.
- **Sync Eletric 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.
- **Preheating led:** turns on in program 4 in the presence of preheating, simultaneously to the Control led for the entire duration of preheating.
- **Alarm led:** activates in the event of incorrect synchronism or for the lack of Power supply phase. The alarm relay simultaneously activates (terminals 6,7,8).

Temperature curves

