




## Protections




-  **Phase imbalance or phase loss**
-  **Phase sequence**
-  **Overtemperature**







## Phase and temperature relay

- To protect 3-phase devices
- Suitable for motors with built-in PTC sensors in applications such as elevators, cranes, hoists and similar installations.
- Sensitive to incorrect phase sequence.
- Monitoring of short-circuit and broken wire in PTC circuit.
- Two output relays, one for phase imbalance, phase loss and phase sequence and the other for over temperature.

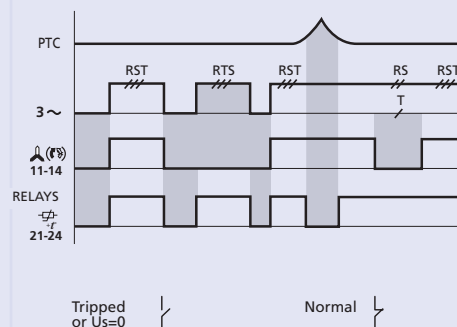
## ST-D



Protections			
<b>Models</b>	<b>ST2-D</b>	<b>ST4-D</b>	
Nominal voltage of the line to be monitored ( $\pm 15\%$ )	3 x 230 V	3 x 400 V	
Voltage supply ( $\pm 15\%$ )	Self-powered (3-phase)		
Code no.	12002	12013	

Characteristics	
Nominal frequency	50/60 Hz
Control range	Phase loss: with resistive loads it trips when a phase loss occurs. With three-phase motors it trips if the voltage regenerated by the motor is lower than 60% of the main voltage. Phase imbalance > 40%
Hysteresis	-
PTC sensor: min/max cold resist - Trip resist	100 $\Omega$ / 1500 $\Omega$ - 2300 $\Omega$
Trip time delay	< 0,1 s
Reset mode	Automatic
Signalling LED's	3 LED's: ON +   + 
Output contacts	2 relays (   +  ) with 1 NO
Switching power	$I_{th}$ : 5A; AC15 - 250V - 2A; DC13 - 30V - 2A
Maximum terminal section / screw torque	2,5 mm <sup>2</sup> , No. 22 - 12AWG / 20Ncm, 1.8 LB - IN
Power consumption	7,5 VA (230 Vac) - 11 VA (400 Vac)
Protection degree / weight	IP20 / 0,13 kg
Storage / operation temperature	-30°C +70°C / -15°C +60°C

CE



## Dimensions

