- Self-powered by the voltage to be monitored (S, ST and ST-D).
- Visual indication of tripping cause.
- DIN rail mounting.

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.

Lift temperature control relay

- Controls the temperature of the lift motor room (relay + external module ODT2) or the temperature inside the switchboard for those lifts without motor room (relay + internal sensor INT2).
- Designed according to the EN 81-1 standard and complying with the European Union Directive for Lifts (95/16/CE).

T

• Two adjustable temperature thresholds.

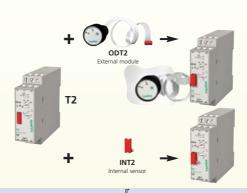
Thermistor protection relay

- Controls the temperature by the use of thermistors (PTC sensors)
- Detects short-circuit ($< 25\Omega$) and breakage in the circuit of sensors.
- Protects the motors against over temperature caused by excess ambient temperature, insufficient ventilation or cooling, etc.
- Applicable in transformers and other machines.

MT









| _ | (* 3) | -⊈- +t° |
|-----------|--------------|-------------|
| ST2-D | | ST4-D |
| 3 x 230 V | | 3 x 400 V |
| Self-p | owere | d (3-phase) |
| 12002 | | 12013 |

| • | | | | |
|---------|-------|------------|-------|-------|
| | T2 | | ODT2 | INT2 |
| | - | | - | - |
| 230 Vac | (Aux) | 24 Vac, do | = | - |
| 12051 | | 12052 | 12037 | 12036 |



50/60 Hz

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 inbalance > 40%

100Ω / 1500Ω - 2300Ω

< 0.1 s

Automatic

3 LED's: ON + ♣ ((%) + ♣

2 relays (▲ (*) + ♣) with 1 NO

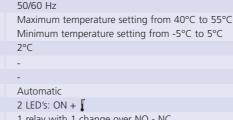
I_{th}: 5A; AC15 - 250V - 2A; DC13 - 30V - 2A

2,5 mm², No. 22 - 12AWG / 20Ncm, 1.8 LB - IN

7,5 VA (230 Vac) - 11 VA (400 Vac)

IP20 / 0,13 kg

-30°C +70°C / -15°C +60°C



1 relay with 1 change over NO - NC

I_{th}: 5A; AC15 - 250V - 2A; DC13 - 30V - 2A 2,5 mm², No. 22 - 12AWG / 20Ncm, 1.8 LB - IN

5 VA (230 Vac) - 0,5 W (24 Vdc)

IP20 / 0,11 kg

-30°C +70°C / -15°C +60°C

50/60 Hz

According to the PTC installed

 25Ω / 1500Ω - 3600Ω . Reset 1800Ω < 0,1s

Automatic

3 LED's: ON + + + +

1 relay with 1 NO + 1 NC

I_{th}: 5A; AC15 - 250V - 2A; DC13 - 30V - 2A

2,5 mm², No. 22 - 12AWG / 20Ncm, 1.8 LB - IN

6 VA (230 Vac)

IP20 / 0,12 kg

-30°C +70°C / -15°C +60°C

