

Main

| | |
|------------------------------|--|
| Commercial Status | Commercialised |
| Range of product | Zelio Control |
| Product or component type | Modular measurement and control relays |
| Relay type | Control relay |
| Product specific application | For 3-phase supply |
| Relay name | RM17TG |
| Relay monitored parameters | Asymmetry Phase failure detection Phase sequence |
| Switching capacity in VA | 1250 VA |

Complementary

| | |
|--------------------------------|--|
| Maximum switching voltage | 250 V DC 250 V AC |
| Minimum switching current | 10 mA at 5 V DC |
| [Us] rated supply voltage | 208...440 V AC |
| Supply voltage limits | 183...484 V AC |
| Control circuit voltage limits | - 12 %, + 10 % Un |
| Power consumption in VA | <= 22 VA 400 V AC 50 Hz |
| Voltage detection threshold | < 100 V for phase failure AC |
| Control circuit frequency | 50...60 Hz +/- 10 % |
| Output contacts | 2 C/O |
| Nominal output current | 5 A |
| Delay at power up | <= 650 ms |
| Voltage range | 183...484 V |
| Response time | <= 130 ms in the event of a fault |
| Marking | CE : 73/23/EEC CE : EMC 89/336/EEC |
| Overvoltage category | III conforming to IEC 60664-1 |
| Insulation resistance | > 500 MOhm at 500 V DC conforming to IEC 60664-1 > 500 MOhm at 500 V DC conforming to IEC 60255-5 |
| [Ui] rated insulation voltage | 400 V conforming to IEC 60664-1 |
| Supply frequency | 50/60 Hz +/- 10 % |
| Operating position | Any position without |
| Electrical connection | 2 conductors cable 0.5...2.5 mm ² AWG20...AWG14 solid without cable end conforming to IEC 60947-1 2 conductors cable 0.2...1.5 mm ² AWG24...AWG16 flexible with cable end conforming to IEC 60947-1 1 conductor cable 0.5...4 mm ² AWG20...AWG11 solid without cable end conforming to IEC 60947-1 1 conductor cable 0.2...2.5 mm ² AWG24...AWG12 flexible with cable end conforming to IEC 60947-1 |
| Tightening torque | 0.6...1 N.m conforming to IEC 60947-1 |
| Housing material | Self-extinguishing plastic |
| Status LED | 1 LED yellow for relay ON |
| Mounting support | 35 mm symmetrical DIN rail conforming to EN/IEC 60715 |
| Electrical durability | 10000 cycles |
| Mechanical durability | <= 30000000 cycles |
| Operating rate | <= 360 operations/hour under full load |

| | |
|----------------------|--|
| Utilisation category | DC-13 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-12 conforming to IEC 60947-5-1 |
| Width | 17.5 mm |
| Product weight | 0.13 kg |

Environment

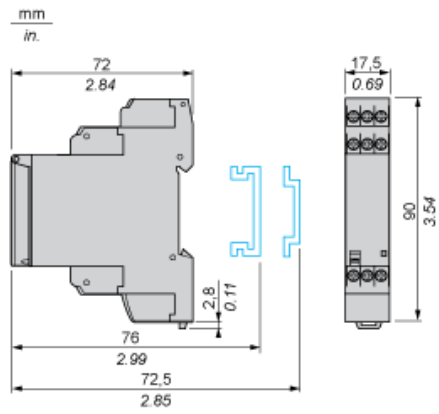
| | |
|---------------------------------------|---|
| Electromagnetic compatibility | Immunity for industrial environments conforming to EN/IEC 61000-6-2 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/IEC 61000-6-4 |
| Standards | EN/IEC 60255-1 |
| Product certifications | CSA C-Tick GL GOST UL |
| Ambient air temperature for storage | -40...70 °C |
| Ambient air temperature for operation | -20...50 °C |
| Relative humidity | 95 % at 55 °C conforming to IEC 60068-2-30 |
| Vibration resistance | 1 gn (f = 57.6...150 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1 0.35 mm (f = 5...57.6 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1 |
| Shock resistance | 15 gn for 11 ms conforming to IEC 60255-21-1 |
| IP degree of protection | IP30 (casing) conforming to IEC 60529 IP20 (terminals) conforming to IEC 60529 |
| Pollution degree | 3 conforming to IEC 60664-1 |
| Dielectric test voltage | 2 kV 1 min AC 50 Hz |
| Non-dissipating shock wave | 4 kV |

Contractual warranty

| | |
|--------|-----------|
| Period | 18 months |
|--------|-----------|

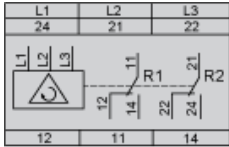
3-Phase Supply Control Relays

Dimensions and Mounting



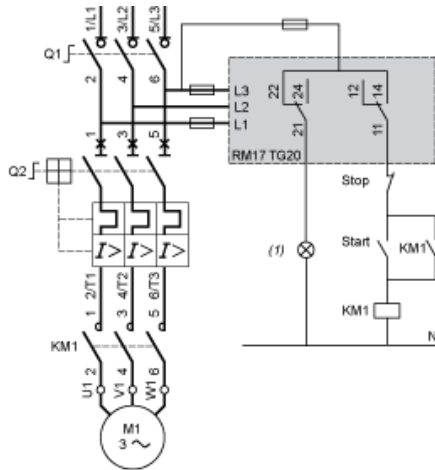
3-Phase Supply Control Relays

Wiring Diagram



Application Scheme

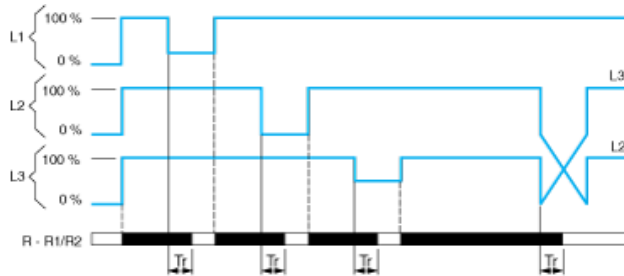
Example



(1) Fault

Function Diagram

Phase Sequence Control and Total Loss of Phase Detection



- Tr Response time on appearance of a fault
 - L1, Phases of the supply voltage monitored
 - L2,
 - L3
 - R - Output relay(s), depending on the product reference
 - R1/
 - R2
- Relay status: black color = energized.