



Main

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|------------------------------|--|
| 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 AC 250 V DC |
| 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 | <= 1.8 VA AC |
| 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 |
| Voltage range | 183...484 V |
| Response time | < 100 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 60255-5 > 500 MOhm at 500 V DC conforming to IEC 60664-1 |
| [Ui] rated insulation voltage | 400 V conforming to IEC 60664-1 |
| Supply frequency | 50/60 Hz +/- 10 % |
| Operating position | Any position without |
| Electrical connection | 1 conductor cable 0.2...2.5 mm ² AWG24...AWG12 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 2 conductors cable 0.2...1.5 mm ² AWG24...AWG16 flexible with cable end conforming to IEC 60947-1 2 conductors cable 0.5...2.5 mm ² AWG20...AWG14 solid without 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 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

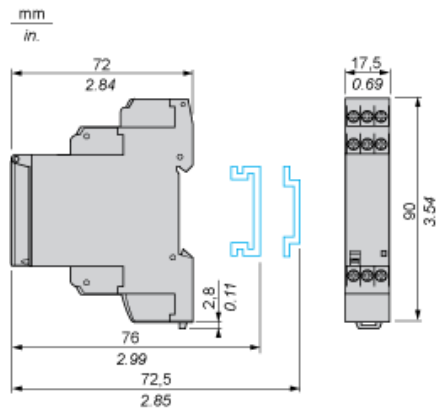
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|----------------------|--|
| Utilisation category | AC-12 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1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

Environment

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|---------------------------------------|---|
| Immunity to microbreaks | 60 ms |
| Electromagnetic compatibility | Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to EN/IEC 61000-6-2 |
| Standards | EN/IEC 60255-6 |
| 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 | 0.35 mm (f = 5...57.6 Hz conforming to IEC 60068-2-6/IEC 60255-21-1 1 gn (f = 57.6...150 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 | IP20 (terminals) conforming to IEC 60529 IP30 (casing) 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 |
| RoHS EUR status | Compliant |
| RoHS EUR conformity date | 0701 |

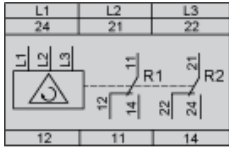
3-Phase Supply Control Relays

Dimensions and Mounting



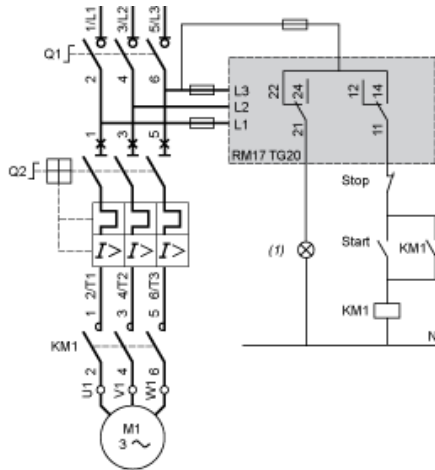
3-Phase Supply Control Relays

Wiring Diagram



Application Scheme

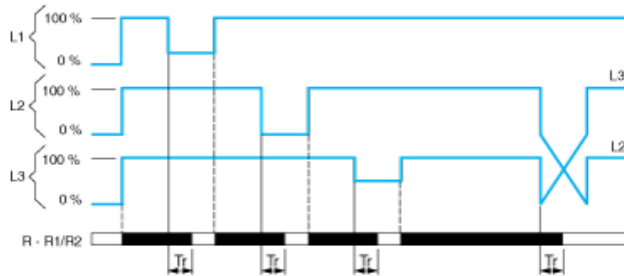
Example



(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.