# RM17TG20
phase control relay RM17-T - range 183..484 V AC

## Characteristics

### Main

- **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 sequence
- **Time delay type**: Without
- **Switching capacity in VA**: 1250 VA
- **Measurement range**: 208...480 V voltage AC

### Complementary

- **Maximum switching voltage**: 250 V AC, 250 V DC
- **Minimum switching current**: 10 mA at 5 V DC
- **Supply voltage limits**: 183...484 V AC
- **Control circuit voltage limits**: - 12 % + 10 % Un
- **Power consumption in VA**: <= 22 VA at 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
- **Measurement voltage limits**: 183...528 V AC
- **Run-up delay at power-up**: <= 650 ms
- **Voltage range**: 183...484 V
- **Response time**: <= 130 ms in the event of a fault
- **Marking**: CE
- **Overvoltage category**: III conforming to IEC 60664-1
- **Insulation resistance**: > 500 MOhm at 500 V DC conforming to IEC 60255-5
- **Voltage range**: > 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
- **Connections - terminals**: Screw terminals 1 x 0.5...1 x 4 mm² - AWG 20...AWG 11, solid cable without cable end
- **Tightening torque**: 0.6...1 N.m conforming to IEC 60947-1
- **Housing material**: Self-extinguishing plastic
- **Local signalling**: LED yellow for relay ON
- **Mounting support**: 35 mm symmetrical DIN rail conforming to EN/IEC 60715
- **Electrical durability**: 10000 cycles
- **Mechanical durability**: <= 3000000 cycles
- **Operating rate**: <= 360 operations/hour under full load
- **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

| Safety reliability data | MTTFd = 924.6 years  
B10d = 850000 |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Width</td>
<td>17.5 mm</td>
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<tr>
<td>Product weight</td>
<td>0.13 kg</td>
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</tbody>
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**Environment**

- **emission 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 60255-1

- **product certifications**
  - CSA
  - C-Tick
  - GL
  - GOST
  - UL

- **directives**
  - 89/336/EEC - electromagnetic compatibility
  - 73/23/EEC - low voltage directive

- **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
  - 1 gn (f = 57.6...150 Hz) conforming to 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

- **dielecric test voltage**
  - 2 kV 1 min AC 50 Hz

- **non-dissipating shock wave**
  - 4 kV

**Offer Sustainability**

- **Sustainable offer status**
  - Green Premium product

- **RoHS (date code: YYWW)**
  - Compliant - since 0701 - Schneider Electric declaration of conformity

- **REACh**
  - Reference not containing SVHC above the threshold

- **Product environmental profile**
  - Available

- **Product end of life instructions**
  - Available

**Contractual warranty**

- **Warranty period**
  - 18 months

**3-Phase Supply Control Relays**

**Dimensions and Mounting**
3-Phase Supply Control Relays

Wiring Diagram

<table>
<thead>
<tr>
<th>L1</th>
<th>24</th>
<th>23</th>
<th>L5</th>
<th>22</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td>R1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>R2</td>
<td></td>
</tr>
</tbody>
</table>

Application Scheme

Example

Function Diagram

Phase Sequence Control and Total Loss of Phase Detection

Legend

Tr: Response time on appearance of a fault

L1, L2, L3: Phases of the supply voltage monitored

R - R1/R2: Output relay(s).

Relay status: black color = energized.