

Product data sheet

Characteristics

RM17TG20

Harmony Control Relays, Modular 3 phase supply control relay, 5A, 2CO, 208...440V AC



Main

| | |
|-------------------------------|---|
| Range of product | Harmony Control Relays |
| Product or component type | 3-phase control relay |
| Relay type | Control relay |
| Product specific application | For 3-phase supply |
| Relay name | RM17TG |
| Relay monitored parameters | Phase sequence Phase failure detection (2 or more phase cut) |
| Time delay | Without |
| Switching capacity in VA | 1250 VA |
| Measurement range | 208...440 V voltage AC |
| Contacts type and composition | 2 C/O |
| [Uc] control circuit voltage | 208...440 V |

Complementary

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|--------------------------------|--|
| 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 | 0...22 VA at 400 V AC 50 Hz |
| Voltage detection threshold | < 100 V AC |
| Control circuit frequency | 50...60 Hz +/- 10 % |
| Output contacts | 2 C/O |
| Nominal output current | 5 A |
| Measurement voltage limits | 183...484 V AC |
| 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 > 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 derating |
| Connections - terminals | Screw terminals, 1 x 0.5...1 x 4 mm ² (AWG 20...AWG 11) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm ² (AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm ² (AWG 24...AWG 12) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm ² (AWG 24...AWG 16) flexible with cable end |
| Tightening torque | 0.6...1 N.m conforming to IEC 60947-1 |
| Housing material | Self-extinguishing plastic |

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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|-------------------------|--|
| 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 | 30000000 cycles |
| Operating rate | <= 360 operations/hour 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 | B10d = 850000 MTTFd = 924.6 years |
| Width | 17.5 mm |
| Net weight | 0.13 kg |

Environment

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|---------------------------------------|---|
| 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 60255-1 |
| Product certifications | GOST C-Tick UL CSA GL |
| Directives | 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility |
| 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 |
| Dielectric test voltage | 2 kV, 1 min AC 50 Hz |
| Non-dissipating shock wave | 4 kV |

Packing Units

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|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.700 cm |
| Package 1 Width | 7.800 cm |
| Package 1 Length | 9.700 cm |
| Package 1 Weight | 98.000 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 48 |
| Package 2 Height | 15.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 5.150 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 768 |
| Package 3 Height | 75.000 cm |
| Package 3 Width | 60.000 cm |
| Package 3 Length | 80.000 cm |
| Package 3 Weight | 87.204 kg |

Offer Sustainability

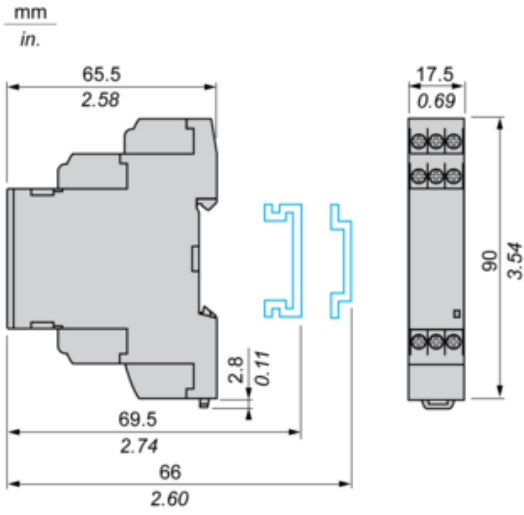
| | |
|----------------------------|--|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

Contractual warranty

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|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

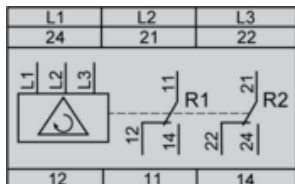
3-Phase Supply Control Relays

Dimensions and Mounting



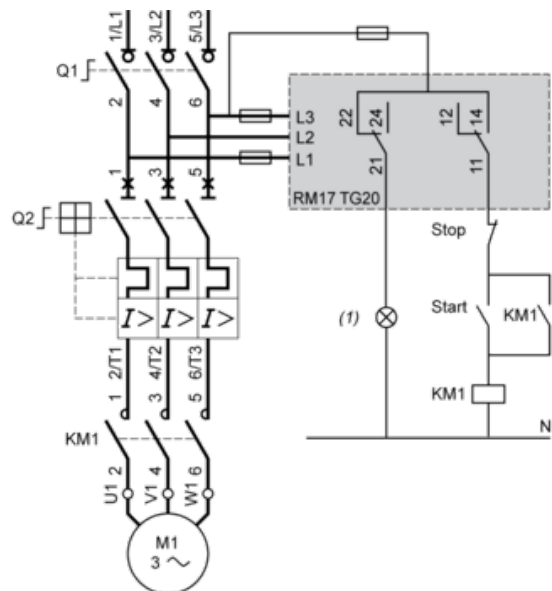
3-Phase Supply Control Relays

Wiring Diagram



Application Scheme

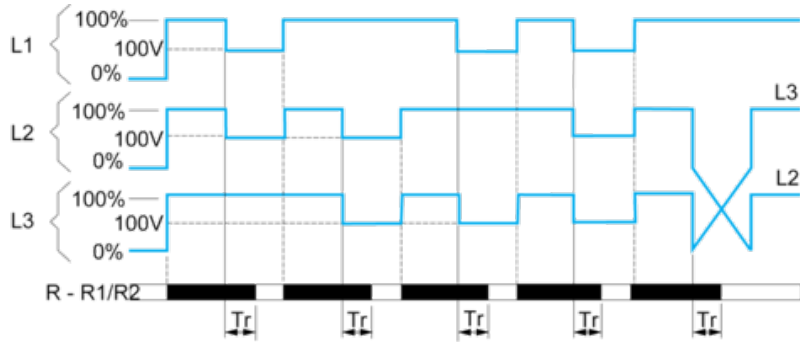
Example



(1) Fault

Function Diagram

Phase Sequence Control and Total Loss of Phase Detection



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.