



Main

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| Range of Product | Harmony Control Relays |
| Product or Component Type | 3-phase control relay |
| Relay Type | Multifunction control relay |
| Product Specific Application | For 3-phase supply |
| Relay name | RM17TU |
| Relay monitored parameters | Undervoltage detection Phase sequence Phase failure detection |
| Time delay | Adjustable 0.1...10 s, +/- 10 % of the full scale value |
| Switching capacity in VA | 1250 VA |
| Measurement range | 208...480 V voltage AC |
| Contacts type and composition | 1 C/O |
| [Uc] control circuit voltage | 208...480 V |

Complementary

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|-----------------------------------|---|
| Reset time | 1500 ms time delay |
| Maximum switching voltage | 250 V AC 250 V DC |
| Minimum switching current | 10 mA 5 V DC |
| Maximum switching current | 5 A AC 5 A DC |
| Supply voltage limits | 183...528 V AC |
| Control circuit voltage limits | - 12 % + 10 % Un |
| Power consumption in VA | 0...22 VA 400 V AC 50 Hz |
| Control circuit frequency | 50...60 Hz +/- 10 % |
| Output contacts | 1 C/O |
| Nominal output current | 5 A |
| Measurement voltage limits | 183...528 V AC |
| Hysteresis | 2 % |
| Delay at power up | 650 ms |
| Maximum measuring cycle | 150 ms measurement cycle as true rms value |
| Threshold adjustment voltage | -2...-12 % in the range 208 V AC -2...-17 % in the range 220 V AC 2...20 % of Un selected +2...+17 % in the range 480 V AC |
| Voltage range | 208...480 V phase to phase |
| Adjustment of asymmetry threshold | 5...15 % of Un selected |
| Repeat accuracy | 0.5 % input and measurement circuit 3 % time delay |
| Measurement error | < 0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation |
| Phase failure sensitivity | 0.7 Un |
| Response time | < 200 ms (in the event of a fault) |
| Marking | CE |
| Overvoltage category | III IEC 60664-1 |

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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| Insulation resistance | > 500 MOhm 500 V DC IEC 60255-5 > 500 MOhm 500 V DC IEC 60664-1 |
| [Ui] rated insulation voltage | 400 V 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 | 5.31...8.85 lbf.in (0.6...1 N.m) IEC 60947-1 |
| Housing material | Self-extinguishing plastic |
| Local signalling | For power ON LED (green) For relay ON LED (yellow) |
| Mounting support | 35 mm symmetrical DIN rail conforming to EN/IEC 60715 |
| Electrical durability | 100000 cycles |
| Mechanical durability | 30000000 cycles |
| Operating rate | <= 360 operations/hour full load |
| Utilisation category | AC-12 IEC 60947-5-1 AC-13 IEC 60947-5-1 AC-14 IEC 60947-5-1 AC-15 IEC 60947-5-1 DC-12 IEC 60947-5-1 DC-13 IEC 60947-5-1 |
| Safety reliability data | MTTFd = 502.2 years B10d = 470000 |
| Width | 0.69 in (17.5 mm) |
| Net Weight | 0.29 lb(US) (0.13 kg) |

Environment

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|---------------------------------------|---|
| Electromagnetic compatibility | Emission standard for industrial environments EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments EN/IEC 61000-6-3 Immunity for industrial environments EN/IEC 61000-6-2 |
| Standards | EN/IEC 60255-1 |
| Product Certifications | GL GOST UL C-tick CSA |
| Directives | 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility |
| Ambient Air Temperature for Storage | -40...158 °F (-40...70 °C) |
| Ambient air temperature for operation | -4...122 °F (-20...50 °C) |
| Relative humidity | 95 % 131 °F (55 °C) IEC 60068-2-30 |
| Vibration resistance | 0.35 mm 5...57.6 Hz)IEC 60068-2-6 1 gn 57.6...150 Hz)IEC 60255-21-1 |
| Shock resistance | 15 gn 11 ms IEC 60255-21-1 |
| IP degree of protection | IP20 IEC 60529 terminals) IP30 IEC 60529 casing) |
| Pollution degree | 3 IEC 60664-1 |
| Dielectric test voltage | 2 KV AC 50 Hz, 1 min IEC 60255-5 2 kV AC 50 Hz, 1 min IEC 60664-1 |
| Non-dissipating shock wave | 4 KV IEC 60255-5 4 KV IEC 60664-1 4 KV IEC 61000-4-5 |

Ordering and shipping details

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|-----------------------|--|
| Category | 22380 - RELAYS-MEASUREMENT (RM17-RM35) |
| Discount Schedule | CP2 |
| GTIN | 3389119405096 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 3.21 oz (91 g) |

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| Returnability | Yes |
| Country of origin | ID |

Packing Units

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|------------------------------|------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 1.05 in (2.669 cm) |
| Package 1 width | 3.05 in (7.735 cm) |
| Package 1 Length | 3.73 in (9.466 cm) |
| Unit Type of Package 2 | CAR |
| Number of Units in Package 2 | 48 |
| Package 2 Weight | 9.63 lb(US) (4.368 kg) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |

Offer Sustainability

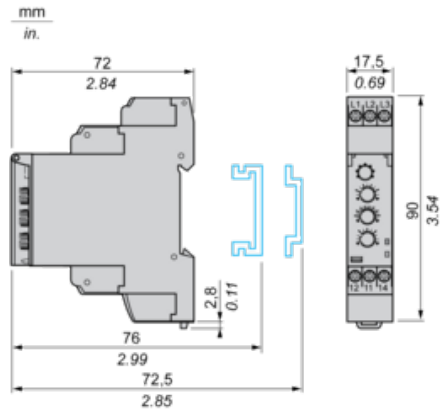
| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

Contractual warranty

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| Warranty | 18 months |
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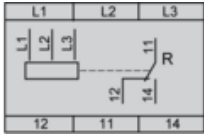
Multifunction 3-Phase Supply Control Relays

Dimensions and Mounting



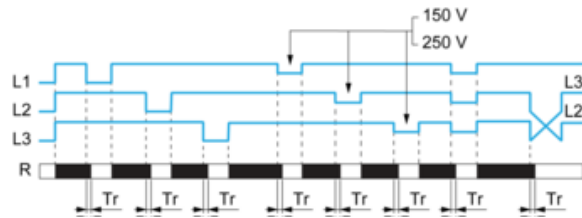
Multifunction 3-Phase Supply Control Relays

Wiring Diagram

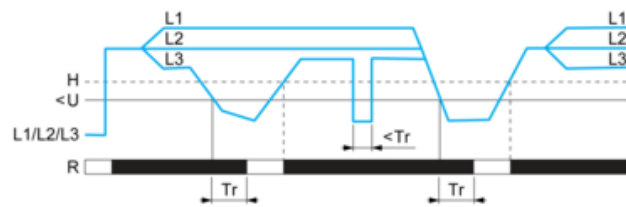


Function Diagrams

Phase Sequence Control and Phase failure Detection



Undervoltage Control



Legend

- Tr : Response time after cross the threshold
- $U<$: Undervoltage threshold
- L1, L2, L3 : Phases of the supply voltage monitored
- R : Relay output 11-12/11-14, 21-22/21-24
- H : Hysteresis
- Relay status : black color = energized.