



Main

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| Range of product | Zelio Control |
| Product or component type | Modular measurement and control relays |
| 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 type | Adjustable 0.1...10 s, +/- 10 % of the full scale value |
| Switching capacity in VA | 1250 VA |
| Measurement range | 183...528 V AC |

Complementary

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| Reset time | 1500 ms for time delay |
| Maximum switching voltage | 250 V AC 250 V DC |
| Minimum switching current | 10 mA at 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 | <= 22 VA at 400 V AC 50 Hz |
| Control circuit frequency | 50...60 Hz +/- 10 % |
| Output contacts | 1 C/O |
| Nominal output current | 5 A |
| Hysteresis | 2 % |
| Run-up delay at power-up | <= 650 ms |
| Measuring cycle | <= 150 ms measurement cycle as true rms value |
| Threshold adjustment voltage | -2...-17 % in the range 220 V AC |

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| | +2...+17 % in the range 480 V AC -2...-12 % in the range 208 V AC 2...20 % of Un selected |
| Voltage range | 208...480 V phase to phase |
| Adjustment of asymmetry threshold | 5...15 % of Un selected |
| Repeat accuracy | 0.5 % for input and measurement circuit 3 % for 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 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 |
| Connections - terminals | Screw terminals 1 x 0.5...1 x 4 mm ² - AWG 20...AWG 11, solid cable without cable end Screw terminals 2 x 0.5...2 x 2.5 mm ² - AWG 20...AWG 14, solid cable without cable end Screw terminals 1 x 0.2...1 x 2.5 mm ² - AWG 24...AWG 12, flexible cable with cable end Screw terminals 2 x 0.2...2 x 1.5 mm ² - AWG 24...AWG 16, flexible cable with cable end |
| Tightening torque | 0.6...1 N.m conforming to IEC 60947-1 |
| Housing material | Self-extinguishing plastic |
| Local signalling | LED green for power ON LED yellow for relay ON |
| 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 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 | B10d = 470000 MTTFd = 502.2 years |
| Width | 17.5 mm |
| Product 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 | UL GL CSA C-Tick GOST |
| 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 |

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| 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 conforming to IEC 60255-5 2 kV 1 min AC 50 Hz conforming to IEC 60664-1 |
| Non-dissipating shock wave | 4 kV conforming to IEC 60255-5 4 kV conforming to IEC 60664-1 4 kV conforming to IEC 61000-4-5 |

Offer Sustainability

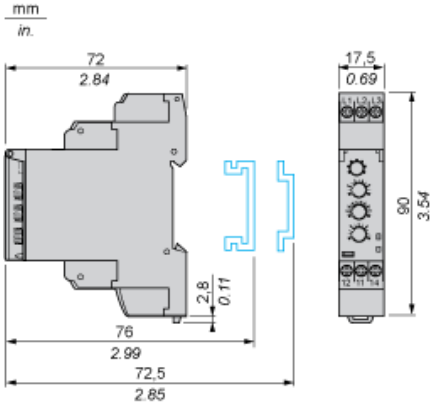
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| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0701 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product environmental profile | Available End of life manual |
| Product end of life instructions | Available |

Contractual warranty

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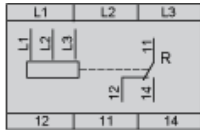
Multifunction 3-Phase Supply Control Relays

Dimensions and Mounting



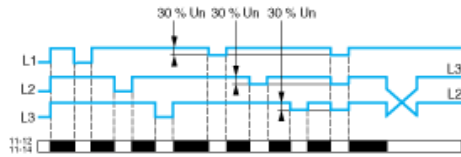
Multifunction 3-Phase Supply Control Relays

Wiring Diagram

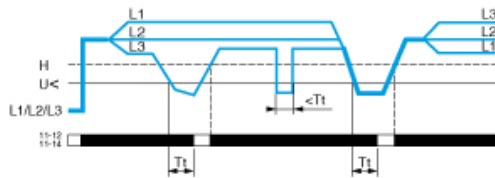


Function Diagrams

Phase Sequence Control and Phase failure Detection ($U \geq 0.7 \times \text{supply voltage}$)



Undervoltage Control



Legend

U_n Nominal 3-phase supply voltage

T_t Time delay after crossing of threshold (adjustable on front panel)

H Hysteresis

$U < H$; Undervoltage threshold

L1, L2, L3 Phases of the supply voltage monitored

11-12, 11-14 Output relay connections (refer to Connections and Schema)

Relay status: black color = energized.