



Main

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| Range of product | Zelio Control |
| Product or component type | Modular measurement and control relays |
| Relay type | Control relay |
| Network number of phases | 3 phases |
| Relay name | RM22TR |
| Relay monitored parameters | Overvoltage and undervoltage detection Phase failure detection Phase sequence |
| Time delay type | Adjustable 0.1...30 s, +/- 10 % of the full scale value on crossing the threshold Tt |
| Switching capacity in VA | 2000 VA |
| Measurement range | 200...240 V voltage AC |

Complementary

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| Reset time | <= 1500 ms at maximum voltage |
| Maximum switching voltage | 250 V AC |
| Minimum switching current | 10 mA at 5 V DC |
| Maximum switching current | 8 A AC |
| [Us] rated supply voltage | 200...240 V AC |
| Supply voltage limits | 160...288 V AC |
| Operating limits | - 20 % + 20 % Un |
| Power consumption in VA | 10 VA at 240 V AC 60 Hz |
| Voltage detection threshold | < 100 V AC |
| Supply voltage frequency | 50...60 Hz +/- 10 % |
| Output contacts | 2 C/O |
| Setting accuracy of the switching threshold | +/- 10 % of the full scale |
| Switching threshold drift | <= 0.05 % per degree centigrade depending permissible ambient air temperature <= 1 % within the supply voltage range |

Disclaimer: 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

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| Setting accuracy of time delay | 10 P |
| Time delay drift | <= 0.05 % per degree centigrade depending permissible ambient air temperature <= 1 % within the supply voltage range |
| Hysteresis | 2 % fixed of selectable |
| Run-up delay at power-up | <= 650 ms |
| Measuring cycle | 150 ms measurement cycle as true rms value |
| Threshold adjustment voltage | 2...20 % of Un selected |
| Voltage range | 200...240 V phase to phase |
| 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 |
| Response time | <= 300 ms |
| Overvoltage category | III conforming to UL 508 III conforming to IEC 60664-1 |
| Insulation resistance | > 100 MOhm at 500 V DC conforming to IEC 60255-27 |
| Mounting position | Any position |
| Connections - terminals | Screw terminals 2 x 0.5...2 x 2.5 mm ² - AWG 20...AWG 14, solid cable without cable end Screw terminals 2 x 0.2...2 x 1.5 mm ² - AWG 24...AWG 16, flexible cable with cable end Screw terminals 1 x 0.5...1 x 3.3 mm ² - AWG 20...AWG 12, solid cable without cable end Screw terminals 1 x 0.2...1 x 2.5 mm ² - AWG 24...AWG 14, flexible cable with cable end |
| Tightening torque | 0.6...1 N.m conforming to IEC 60947-1 |
| Housing material | Self-extinguishing plastic |
| Status LED | LED yellow for relay ON LED green for power ON |
| Mounting support | 35 mm DIN rail conforming to EN/IEC 60715 |
| Electrical durability | 100000 cycles |
| Mechanical durability | 10000000 cycles |
| Utilisation category | AC-1 conforming to IEC 60947-4-1 DC-1 conforming to IEC 60947-4-1 AC-15 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 |
| Safety reliability data | MTTFd = 388.1 years B10d = 350000 |
| Contacts material | Cadmium free |
| Width | 22.5 mm |
| Product weight | 0.09 kg |

Environment

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| Immunity to microbreaks | <= 10 ms |
| Electromagnetic compatibility | Conducted and radiated emissions class B conforming to CISPR 22 Immunity for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-1 Electrostatic discharge 6 kV level 3 contact discharge conforming to IEC 61000-4-2 Electrostatic discharge 8 kV level 3 air discharge conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test 10 V/m level 3 conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test 4 kV level 4 direct conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test 2 kV level 4 capacitive coupling conforming to IEC 61000-4-4 Surge immunity test 4 kV level 4 common mode conforming to IEC 61000-4-5 Surge immunity test 2 kV level 4 differential mode conforming to IEC 61000-4-5 Conducted and radiated emissions class B group 1 conforming to CISPR 11 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 | CCC CE CSA GL |

UL
RCM
EAC
China RoHS

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| Ambient air temperature for storage | -40...70 °C |
| Ambient air temperature for operation | -20...50 °C at 60 Hz -20...60 °C at 50 Hz AC/DC |
| Relative humidity | 93...97 % at 25...55 °C conforming to IEC 60068-2-30 |
| Vibration resistance | 0.075 mm (f = 10...58.1 Hz) (not in operation) conforming to IEC 60068-2-6 1 gn (f = 10...58.1 Hz) (not in operation) conforming to IEC 60068-2-6 0.035 mm (f = 58.1...150 Hz) (in operation) conforming to IEC 60068-2-6 0.5 gn (f = 58.1...150 Hz) (in operation) conforming to IEC 60068-2-6 |
| Shock resistance | 15 gn for 11 ms (not in operation) conforming to IEC 60068-2-27 5 gn for 11 ms (in operation) conforming to IEC 60068-2-27 |
| IP degree of protection | IP20 on terminals conforming to IEC 60529 IP40 on housing conforming to IEC 60529 IP50 on front panel conforming to IEC 60529 |
| Pollution degree | 3 conforming to IEC 60664-1 3 conforming to UL 508 |
| Dielectric test voltage | 2.5 kV for 1 min AC 50 Hz conforming to IEC 60255-27 |

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 Product Environmental Profile |
| Product end of life instructions | Available End of Life Information |