



Glavno

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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 |

Komplementarno

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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 |
| Control circuit voltage limits | - 20 % + 20 % Un |
| Power consumption in VA | 10 VA at 240 V AC 60 Hz |
| Voltage detection threshold | < 100 V AC |
| Supply 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 |
| 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 IEC 60664-1 III conforming to UL 508 |
| 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 |

Informacije dane u ovoj dokumentaciji sadrže opće opise i/ili tehničke karakteristike o performansama ovdje sadržanih proizvoda. Ova dokumentacija nije namijenjena kao zamjena za niti bi se trebala koristiti za određivanje prikladnosti ili pouzdanosti predmetnih proizvoda za konkretne korisničke primjene. Svaki takav korisnik ili integrator dužan je provesti odgovarajuću i potpunu analizu rizika, procjenu i ispitivanje proizvoda u odnosu na odgovarajuću specifičnu primjenu ili uporabu istog. Niti društvo Schneider Electric Industries SAS niti bilo koje od njegovih povezanih poduzeća ili podružnica neće preuzeti obvezu ili snositi odgovornost za pogrešnu upotrebu ovdje sadržanih informacija.

Screw terminals 1 x 0.5...1 x 3.3 mm² - AWG 20...AWG 12, solid cable without cable end
 Screw terminals 1 x 0.2...1 x 2.5 mm² - AWG 24...AWG 14, flexible cable with cable end

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| 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-15 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 AC-1 conforming to IEC 60947-4-1 DC-1 conforming to IEC 60947-4-1 |
| Safety reliability data | MTTFd = 388.1 years B10d = 350000 |
| Contacts material | Cadmium free |
| Width | 22.5 mm |
| Product weight | 0.09 kg |

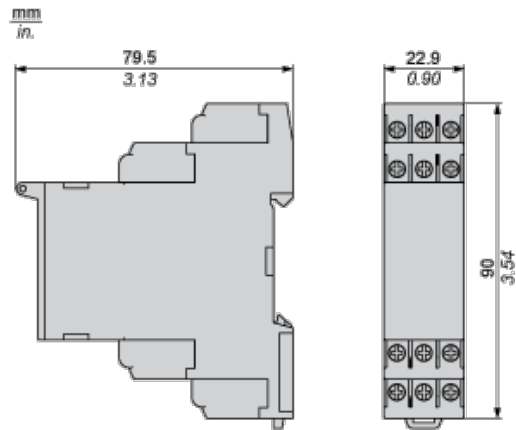
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| immunity to microbreaks | <= 10 ms |
| electromagnetic compatibility | Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to EN/IEC 61000-6-2 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 |
| standards | EN/IEC 60255-1 |
| product certifications | CCC CE CSA GL UL RCM EAC China RoHS |
| 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

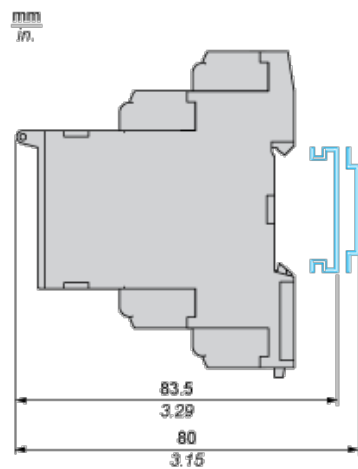
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|---|---|
| Green Premium product | Green Premium product |
| Compliant - since 0701 - Schneider Electric declaration of conformity | Compliant - since 0701 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold | Reference not containing SVHC above the threshold |
| Available | Available |
| Available | Available |

Dimensions



Mounting and Clearance

Rail Mounting



3-Phase Voltage Control Relay

Wiring Diagram



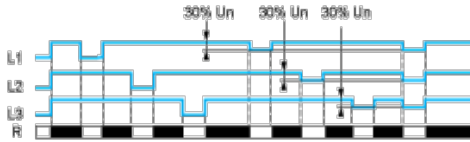
L1,L2,L3 : Supply to be monitored

11-14,12 : 1st C/O contact of output relay

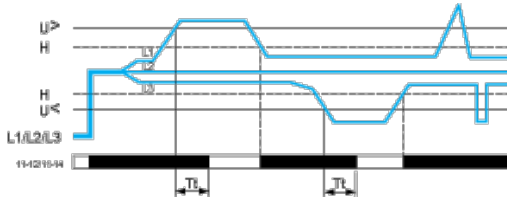
21-24,22 : 2nd C/O contact of output relay

Function Diagrams

Phase Failure Detection (U measured < 0.7 x nominal supply voltage)



Control of Overvoltage and Undervoltage



Legend

U_n Nominal supply voltage

R Output relay

T_t Overvoltage and undervoltage threshold delay (adjustable on front panel from 0.3 to 30 s)

H Hysteresis

$U>$ Overvoltage threshold

$U<$ Undervoltage threshold

L1, L2, L3 Phases of the supply voltage monitored

11-12, 11-14 R1 output relay connections

Relay status: black color = energized.