



Main

| | |
|----------------------------|---|
| Range of product | Zelio Control |
| Product or component type | Modular measurement and control relays |
| Relay type | Current control relay |
| Relay name | RM17JC |
| Relay monitored parameters | Overcurrent detection |
| Time delay type | Without |
| Switching capacity in VA | 1250 VA |
| Minimum switching current | 10 mA at 5 V DC |
| Power consumption in VA | <= 3 VA |
| Measurement range | 2...20 A current |
| 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 DC-14 conforming to IEC 60947-5-1 |

Complementary

| | |
|--------------------------------|--|
| Maximum switching voltage | 250 V AC/DC |
| [Us] rated supply voltage | 24...240 V AC/DC, 50/60 Hz +/- 10 % |
| Supply voltage limits | 20.4...264 V AC/DC |
| Control circuit voltage limits | - 15 % + 10 % Un |
| Power consumption in W | <= 1 W |
| Control circuit frequency | 40...70 Hz sinusoidal |
| Output contacts | 1 C/O |
| Nominal output current | 5 A |
| Measuring cycle | <= 30 ms measurement cycle as true rms value |
| Hysteresis | 15 % fixed of threshold setting |
| Run-up delay at power-up | 0.5 s |
| Measurement accuracy | +/- 10 % of the full scale value |
| Repeat accuracy | +/- 0.5 % for input and measurement circuit |
| Measurement error | +/- 0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation |
| Response time | < 200 ms in the event of a fault |
| Polarity | Yes DC |
| Threshold setting | 10...100 % |
| Input current | 100000 mA permanent at 25 °C 300000 mA non repetitive < 3 s at 25 °C |
| Marking | CE : 73/23/EEC CE : EMC 89/336/EEC |
| 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 |
| Insulation | Between supply and measurement |
| Operating position | Any position without derating |
| 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 mm² - AWG 24...AWG 12, flexible cable with cable end
 Screw terminals 2 x 0.2...2 x 1.5 mm² - 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 |
| Contacts material | Cadmium free |
| Width | 17.5 mm |
| Product weight | 0.13 kg |

Environment

| | |
|---------------------------------------|--|
| 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 NF EN/IEC 61000-6-2 |
| standards | EN/IEC 60255-6 |
| product certifications | CSA C-Tick GL GOST UL |
| 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 AC 50 Hz |
| non-dissipating shock wave | 4 kV |

Offer Sustainability

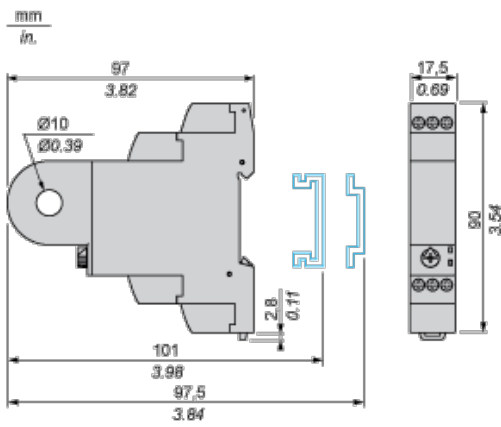
| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0701 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available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

Contractual warranty

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

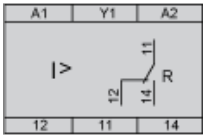
Current Control Relays

Dimensions and Mounting



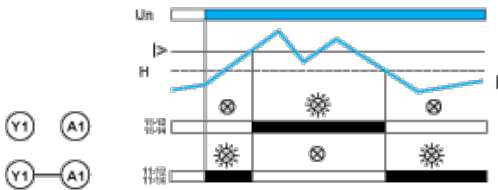
Current Control Relays

Wiring Diagram



Function Diagram

Control of Overcurrent



Legend

Un Supply voltage

I Monitored current

H Hysteresis

I> Overcurrent threshold (set by means of a potentiometer)

11-12/11-14, 21-22/21-24 Output relay connections (refer to Connections and Schema)

Relay status: black color = energized.

NOTE: When terminal Y1 is linked to A1 (+), the output is reversed.