

Product data sheet

Specifications



modular measurement and control
relays, Harmony Control Relays,
220V AC, time delay 3...15min

RM17UAS15315M

⚠ Discontinued on: Sep 15, 2023

⚠ Discontinued

Main

| | |
|------------------------------|---|
| Range of product | Harmony Control Relays |
| Relay type | Voltage control relay |
| Product or component type | Voltage control relay |
| Product specific application | For single-phase |
| Relay name | RM17UAS |
| Relay monitored parameters | Undervoltage detection Self-powered |
| time delay | Adjustable 3...15 min Tt- time delay upon fault |
| Switching capacity in VA | 1250 VA |
| Measurement range | 165...270 V AC |

Complementary

| | |
|--------------------------------|---|
| Reset time | 1500 ms time delay |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching current | 10 mA 5 V DC |
| Maximum switching current | 5 A AC/DC |
| Supply voltage limits | 165...270 V AC |
| Power consumption in VA | 0...3 VA AC |
| Maximum power consumption in W | 1 W |
| Control circuit frequency | 50 Hz +/- 10 % |
| Immunity to microbreaks | 20 ms |
| Output contacts | 1 C/O |
| nominal output current | 5 A |
| Hysteresis | 5 % fixed threshold setting |
| Measurement accuracy | +/- 3 % |
| Response time | <= 200 ms |
| delay at power up | 3 min minimum |
| Repeat accuracy | +/- 0.5 % input and measurement circuit +/- 1 % time delay |
| Measurement error | 0.2 %/°C with temperature variation |
| Quality labels | CE |

| | |
|--------------------------------------|--|
| Insulation resistance | > 500 MOhm 500 V DC IEC 60255-5 > 500 MOhm 500 V DC IEC 60664-1 |
| Operating position | Any position without derating |
| Local signalling | LED (green) for power ON LED (yellow) for relay ON |
| Overvoltage category | III conforming to IEC 60664-1 |
| [Ui] rated insulation voltage | 250 V IEC 60664-1 |
| 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...2 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 | 5.3...8.8 lbf.in (0.6...1.0 N.m) IEC 60947-1 5.3...8.9 lbf.in (0.6...1 N.m) IEC 60947-1 |
| Housing material | Polycarbonate |
| Mounting support | 35 mm symmetrical DIN rail IEC 60715 |
| Electrical durability | 100000 cycles |
| Mechanical durability | 30000000 cycles |
| Operating rate | <= 360 operations/hour full load |
| Utilisation category | AC-1 IEC 60947-5-1 AC-15 IEC 60947-5-1 DC-1 IEC 60947-5-1 DC-13 IEC 60947-5-1 |
| [Un] rated nominal voltage | , self-powered |
| Control type | Without test button |
| Width | 0.7 in (17.5 mm) |
| Net weight | 0.18 lb(US) (0.08 kg) |

Environment

| | |
|--|--|
| Electromagnetic compatibility | Emission standard for industrial environments conforming to IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to IEC 61000-6-3 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2 |
| Ambient air temperature for operation | -4...122 °F (-20...50 °C) |
| 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 | 5 gn IEC 60068-2-27 |
| Standards | IEC 60255-1 |
| Product certifications | UL |
| Ambient air temperature for storage | -40...158 °F (-40...70 °C) |
| Relative humidity | 95 % 131 °F (55 °C) IEC 60068-2-30 |
| IP degree of protection | IP20 IEC 60529 terminals) IP30 IEC 60529 casing) |
| Pollution degree | 3 IEC 60664-1 |
| Directives | 89/336/EEC - electromagnetic compatibility 73/23/EEC - low voltage directive |
| 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 |

Packing Units

| | |
|-------------------------------------|-----------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.5 in (9.0 cm) |
| Package 1 Width | 0.69 in (1.75 cm) |
| Package 1 Length | 3.9 in (10.0 cm) |
| Package 1 Weight | 3.2 oz (90.0 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 48 |
| Package 2 Height | 5.9 in (15.0 cm) |
| Package 2 Width | 11.8 in (30.0 cm) |
| Package 2 Length | 15.7 in (40.0 cm) |
| Package 2 Weight | 161.9 oz (4590.0 g) |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 768 |
| Package 3 Height | 27.6 in (70.0 cm) |
| Package 3 Width | 23.6 in (60.0 cm) |
| Package 3 Length | 31.5 in (80.0 cm) |
| Package 3 Weight | 2766.8 oz (78440.0 g) |

Contractual warranty

| | |
|-----------------------------|----|
| Warranty (in months) | 18 |
|-----------------------------|----|



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better



Materials and Substances

Packaging made with recycled cardboard

Yes

Packaging without single use plastic

Yes

SCIP Number

5e3fdf99-611b-4d07-ad17-6eba84ab488b

EU RoHS Directive

[Compliant By Exemption](#)

Use Longer



Lifetime extension

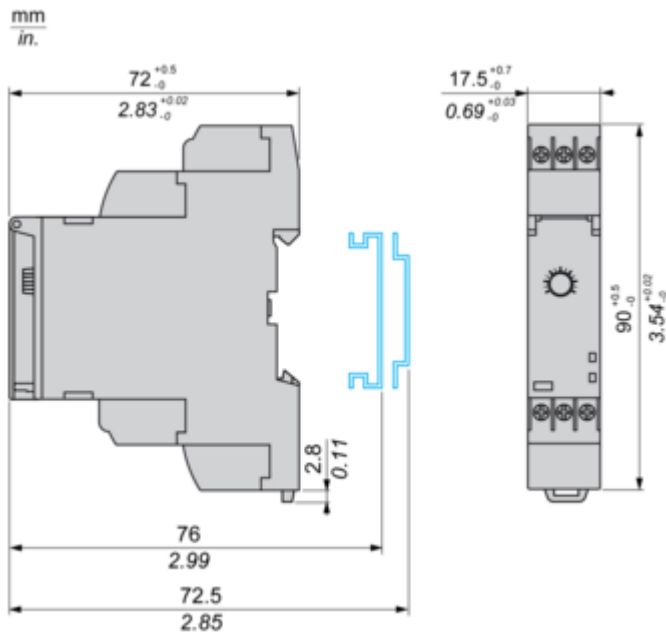
Repair

No

Dimensions Drawings

Single-Phase Voltage Control Relays

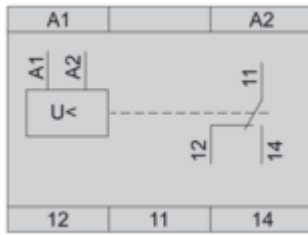
Dimensions and Mounting



Connections and Schema

Single-Phase Voltage Control Relays

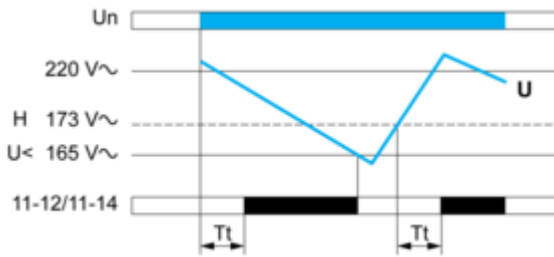
Wiring Diagram



Technical Description

Function Diagrams

Undervoltage Control

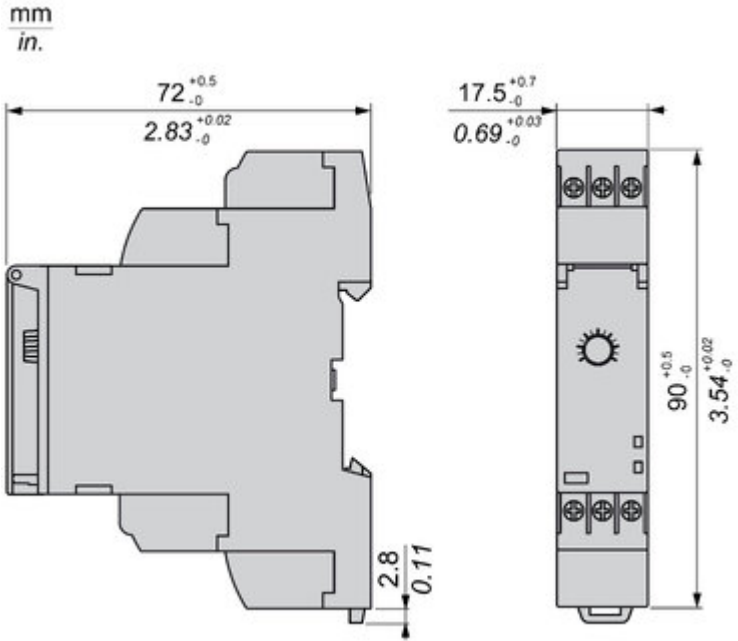


Legend

- Tt :Time delay during power-up or during recovery (after cross hysteresis)
- Un : Nominal supply voltage
- U : Monitored supply voltage
- H : Hysteresis
- U< : Undervoltage threshold
- 11-12, 11-14 : Output relay connections (refer to Connections and Schema)
- Relay status : black color = energized.

Technical Illustration

Dimensions



Offer Marketing Illustration

Product benefits / Features

Technical Benefits

Harmony Control Relay

Compliant with IEC 60255-1 standard, and a wide array of product certifications such as UL, CE, CSA, EAC.

Different product width to meet your needs:
17.5 mm/0.69 in.,
22.5 mm/0.88 in.,
35 mm/1.38 in.

Diagnostic button to check downstream circuit immediately, shorten the commission and troubleshooting time

Dust and unintended human intervention avoided thanks to the IP50 lead-sealable settings protection cover.

A Dial-Pointer LED indicator that enhances ease of operation in difficult environments such as dusty or low-light conditions



Offer Marketing Illustration

Product benefits / Features

Features

Harmony Control Relay

Wide monitoring parameters (phase, current, voltage, liquid level, frequency, speed, temperature, and pump control) to meet your application needs.

True RMS measurement that minimizes the possibility of unexpected trips from highly polluted networks (except RM17TG and RM22TG)

Experience unprecedented accuracy, predictive maintenance, and superior security.

Green Premium labelled products, promising compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ product

Compatible with a wide range of applications, such as hoisting, packaging, lifts, textile, pumping, and water.

Offer Marketing Illustration

Product benefits / Features



Features

Harmony Timer Relay

- 

"Diagnostic button" to check downstream circuit immediately, shorten the commission and troubleshooting time
- 

Compatible with a wide range of applications including machines, buildings, water segments, and HVAC.
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Wide range of time delay for adjustment: from 0.01 s to 999 hrs.
- 

Compliant with IEC 60255-1 standard, and a wide array of product certifications such as UL, CE, CSA, EAC.
- 

Unprecedented accuracy, predictive maintenance, and superior security.

Image of product / Alternate images

Alternative

