

# Product datasheet

Specifications



Harmony. Modular multifunction 3-phase supply control relay. 5 A. 1 CO. 208...480 V AC

RM17TT00

Price: 2,225.75 ZAR

## Main

|                               |                                           |
|-------------------------------|-------------------------------------------|
| Range Of Product              | Harmony Control Relays                    |
| Relay Type                    | Multifunction control relay               |
| Product Or Component Type     | 3-phase control relay                     |
| Product Specific Application  | For 3-phase supply                        |
| Relay Name                    | RM17TT                                    |
| Relay Monitored Parameters    | Phase failure detection<br>Phase sequence |
| Time Delay                    | Without                                   |
| Switching Capacity In Va      | 1250 VA                                   |
| Measurement Range             | 208...480 V AC                            |
| Contacts Type And Composition | 1 C/O                                     |
| [Uc] Control Circuit Voltage  | 208...480 V                               |

## Complementary

|                                |                                            |
|--------------------------------|--------------------------------------------|
| Reset Time                     | 1500 ms time delay                         |
| Maximum Switching Voltage      | 250 V AC<br>250 V DC                       |
| Minimum Switching Current      | 10 mA at 5 V DC                            |
| Maximum Switching Current      | 5 A AC<br>5 A DC                           |
| [Un] Rated Nominal Voltage     | , self-powered                             |
| Supply Voltage Limits          | 183...528 V AC                             |
| Control Circuit Voltage Limits | - 12 % + 10 % Un                           |
| Power Consumption In Va        | 0...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                                        |
| Measurement Voltage Limits     | 183...528 V AC                             |
| Hysteresis                     | 2 %                                        |
| Delay At Power Up              | 650 ms                                     |
| Maximum Measuring Cycle        | 150 ms measurement cycle as true rms value |
| Voltage Range                  | 208...480 V phase to phase                 |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

|                               |                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Repeat Accuracy               | 0.5 % for input and measurement circuit<br>3 % for time delay                                                                                                                                                                                                                                                                              |
| Measurement Error             | < 0.05 %/°C with temperature variation<br>< 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<br>> 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 derating                                                                                                                                                                                                                                                                                                              |
| Connections - Terminals       | Screw terminals, 1 x 0.5...1 x 4 mm² (AWG 20...AWG 11) solid without cable end<br>Screw terminals, 2 x 0.5...2 x 2.5 mm² (AWG 20...AWG 14) solid without cable end<br>Screw terminals, 1 x 0.2...1 x 2.5 mm² (AWG 24...AWG 12) flexible with cable end<br>Screw terminals, 2 x 0.2...2 x 1.5 mm² (AWG 24...AWG 16) flexible 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<br>LED (yellow) for relay ON                                                                                                                                                                                                                                                                                      |
| Mounting Support              | 35 mm symmetrical DIN rail conforming to IEC 60715                                                                                                                                                                                                                                                                                         |
| Electrical Durability         | 100000 cycles                                                                                                                                                                                                                                                                                                                              |
| Mechanical Durability         | 30000000 cycles                                                                                                                                                                                                                                                                                                                            |
| Operating Rate                | <= 360 operations/hour full load                                                                                                                                                                                                                                                                                                           |
| Utilisation Category          | AC-12 conforming to IEC 60947-5-1<br>AC-13 conforming to IEC 60947-5-1<br>AC-14 conforming to IEC 60947-5-1<br>AC-15 conforming to IEC 60947-5-1<br>DC-12 conforming to IEC 60947-5-1<br>DC-13 conforming to IEC 60947-5-1                                                                                                                 |
| Safety Reliability Data       | MTTFd = 502.2 years<br>B10d = 470000                                                                                                                                                                                                                                                                                                       |
| Width                         | 17.5 mm                                                                                                                                                                                                                                                                                                                                    |
| Net Weight                    | 0.13 kg                                                                                                                                                                                                                                                                                                                                    |
| Control Type                  | Without test button                                                                                                                                                                                                                                                                                                                        |

## Environment

|                                     |                                                                                                                                                                                                                                                              |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electromagnetic Compatibility       | Emission standard for industrial environments conforming to IEC 61000-6-4<br>Emission standard for residential, commercial and light-industrial environments conforming to IEC 61000-6-3<br>Immunity for industrial environments conforming to IEC 61000-6-2 |
| Standards                           | IEC 60255-1                                                                                                                                                                                                                                                  |
| Product Certifications              | UL<br>GL<br>C-Tick<br>GOST<br>CSA                                                                                                                                                                                                                            |
| Directives                          | 73/23/EEC - low voltage directive<br>89/336/EEC - electromagnetic compatibility                                                                                                                                                                              |
| 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<br>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<br>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<br>2 kV, 1 min AC 50 Hz conforming to IEC 60664-1             |
| Non-Dissipating Shock Wave            | 4 kV conforming to IEC 60255-5<br>4 kV conforming to IEC 60664-1<br>4 kV conforming to IEC 61000-4-5         |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type Of Package 1       | PCE       |
| Number Of Units In Package 1 | 1         |
| Package 1 Height             | 2.800 cm  |
| Package 1 Width              | 7.800 cm  |
| Package 1 Length             | 9.600 cm  |
| Package 1 Weight             | 90.000 g  |
| Unit Type Of Package 2       | S02       |
| Number Of Units In Package 2 | 48        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 4.670 kg  |

## Contractual warranty

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

Sustainability



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Transparency   RoHS/REACH

## Well-being performance

✓

Mercury Free

✓

Rohs Exemption Information

Yes

## Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

China Rohs Regulation

[China RoHS declaration](#)

Environmental Disclosure

[Product Environmental Profile](#)

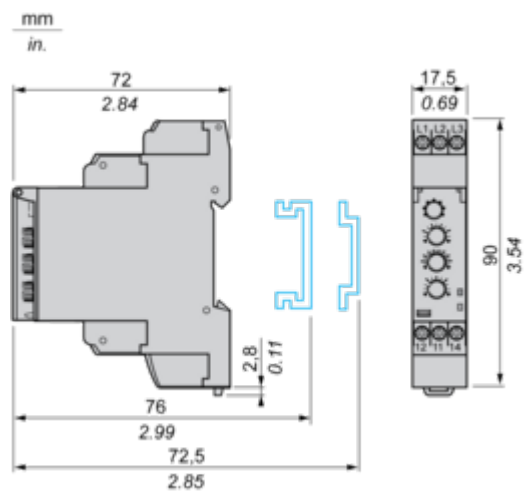
Circularity Profile

[End of Life Information](#)

Dimensions Drawings

Multifunction 3-Phase Supply Control Relays

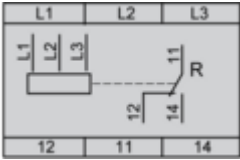
Dimensions and Mounting



Connections and Schema

Multifunction 3-Phase Supply Control Relays

Wiring Diagram

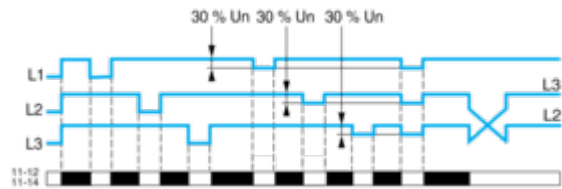


Technical Description

Function Diagram

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Phase Sequence Control and Partial Phase Failure Detection



Legend

- Un Nominal 3-phase supply voltage
- L1, L2, L3 Phases of the supply voltage monitored
- 11-12, 11-14 Output relay connections
- Relay status: black color = energized.