

# Product datasheet

Specifications



## multifunction control relay RM17-TU - range 183..528 V AC

RM17TU00

### 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	RM17TU
Relay Monitored Parameters	Undervoltage detection Phase sequence Phase failure detection
Time Delay	Adjustable 0.1...10 s, +/- 10 % of the full scale value Tt- time delay upon fault
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 250 V DC
Minimum Switching Current	10 mA at 5 V DC
Maximum Switching Current	5 A AC 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

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

<b>Threshold Adjustment Voltage</b>	2...20 % of Un selected -2...-12 % in the range 208 V AC -2...-17 % in the range 220 V AC
<b>Voltage Range</b>	208...480 V phase to phase
<b>Repeat Accuracy</b>	0.5 % for input and measurement circuit 3 % for time delay
<b>Measurement Error</b>	< 0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation
<b>Phase Failure Sensitivity</b>	0.7 Un
<b>Response Time</b>	< 200 ms (in the event of a fault)
<b>Marking</b>	CE
<b>Overvoltage Category</b>	III conforming to IEC 60664-1
<b>Insulation Resistance</b>	> 500 MOhm at 500 V DC conforming to IEC 60255-5 > 500 MOhm at 500 V DC conforming to IEC 60664-1
<b>[Uij] Rated Insulation Voltage</b>	400 V conforming to IEC 60664-1
<b>Supply Frequency</b>	50/60 Hz +/- 10 %
<b>Operating Position</b>	Any position without derating
<b>Connections - Terminals</b>	Screw terminals, 1 x 0.5...1 x 4 mm <sup>2</sup> (AWG 20...AWG 11) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm <sup>2</sup> (AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm <sup>2</sup> (AWG 24...AWG 12) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm <sup>2</sup> (AWG 24...AWG 16) flexible with cable end
<b>Tightening Torque</b>	0.6...1 N.m conforming to IEC 60947-1
<b>Housing Material</b>	Self-extinguishing plastic
<b>Local Signalling</b>	LED (green) for power ON LED (yellow) for relay ON
<b>Mounting Support</b>	35 mm symmetrical DIN rail conforming to IEC 60715
<b>Electrical Durability</b>	100000 cycles
<b>Mechanical Durability</b>	30000000 cycles
<b>Operating Rate</b>	<= 360 operations/hour full load
<b>Utilisation Category</b>	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
<b>Safety Reliability Data</b>	MTTFd = 502.2 years B10d = 470000
<b>Width</b>	17.5 mm
<b>Net Weight</b>	0.13 kg
<b>Control Type</b>	Without test button

## Environment

<b>Electromagnetic Compatibility</b>	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 IEC 61000-6-2
<b>Standards</b>	IEC 60255-1
<b>Product Certifications</b>	GL GOST UL C-Tick CSA

<b>Directives</b>	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
<b>Ambient Air Temperature For Storage</b>	-40...70 °C
<b>Ambient Air Temperature For Operation</b>	-20...50 °C
<b>Relative Humidity</b>	95 % at 55 °C conforming to IEC 60068-2-30
<b>Vibration Resistance</b>	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
<b>Shock Resistance</b>	15 gn for 11 ms conforming to IEC 60255-21-1
<b>Ip Degree Of Protection</b>	IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529
<b>Pollution Degree</b>	3 conforming to IEC 60664-1
<b>Dielectric Test Voltage</b>	2 kV, 1 min AC 50 Hz conforming to IEC 60255-5 2 kV, 1 min AC 50 Hz conforming to IEC 60664-1
<b>Non-Dissipating Shock Wave</b>	4 kV conforming to IEC 60255-5 4 kV conforming to IEC 60664-1 4 kV conforming to IEC 61000-4-5

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	2.8 cm
<b>Package 1 Width</b>	8 cm
<b>Package 1 Length</b>	9.6 cm
<b>Package 1 Weight</b>	94 g
<b>Unit Type Of Package 2</b>	S02
<b>Number Of Units In Package 2</b>	48
<b>Package 2 Height</b>	15 cm
<b>Package 2 Width</b>	30 cm
<b>Package 2 Length</b>	40 cm
<b>Package 2 Weight</b>	5.003 kg

## Contractual warranty

<b>Warranty</b>	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



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](#)

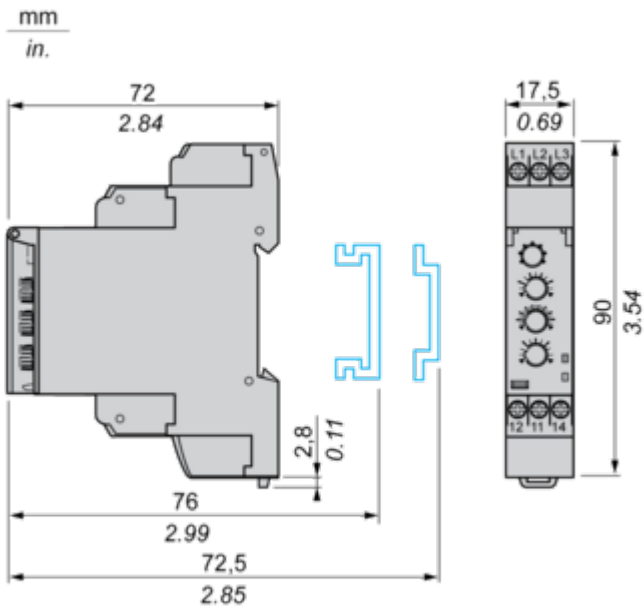
Circularity Profile [End of Life Information](#)

Dimensions Drawings

Multifunction 3-Phase Supply Control Relays

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Dimensions and Mounting

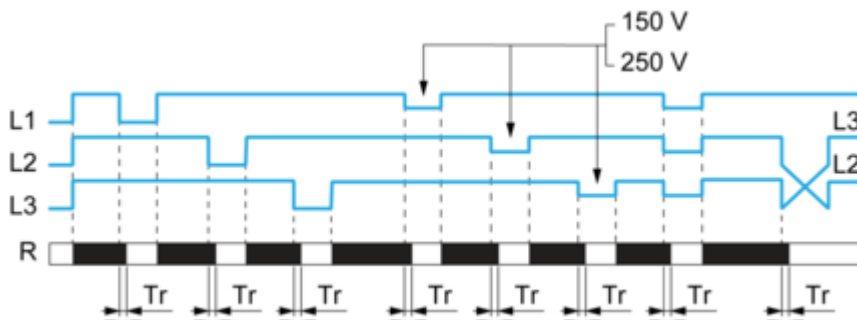




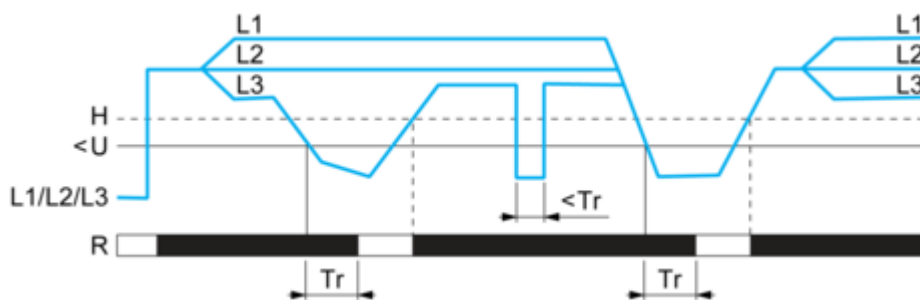
Technical Description

Function Diagrams

Phase Sequence Control and Phase failure Detection



Undervoltage Control



Legend

- $T_r$  : Response time after cross the threshold
- $U<$  : Undervoltage threshold
- L1, L2, L3 : Phases of the supply voltage monitored
- R : Relay output 11-12/11-14, 21-22/21-24
- H : Hysteresis
- Relay status : black color = energized.