

# 3 phase control relay, Harmony Control Relays, 5A, 1CO, 208...480V AC

RM17TA00

## Main

Range of product	Harmony Control Relays	
Relay type	Multifunction control relay	
Product or component type	3-phase control relay	
Relay name	RM17TA	
Relay monitored parameters	Asymmetry Phase sequence Phase failure detection	
Measurement range	208480 V AC	
Time delay type	Adjustable 0.110 s, +/- 10 % of the full scale value Tt- time delay upon fault	
Output contacts	1 C/O	
Nominal output current	5 A	
Contacts type and composition	1 C/O	
[Uc] control circuit voltage	208480 V	
Product specific application	For 3-phase supply	

## Complementary

[Us] rated supply voltage	, self-powered	
Supply voltage limits	183528 V AC	
Reset time	1500 ms time delay	
Maximum switching voltage	250 V AC 250 V DC	
Switching capacity in VA	1250 VA	
Minimum switching current	10 mA at 5 V DC	
Maximum switching current	5 A AC 5 A DC	
Control circuit voltage limits	- 12 % + 10 % Un	
Power consumption in VA	022 VA at 400 V AC 50 Hz	
Control circuit frequency	5060 Hz +/- 10 %	
Measurement voltage limits	183528 V AC	
Hysteresis	2 %	
delay at power up	650 ms	
Maximum measuring cycle	150 ms measurement cycle as true rms value	
Voltage range	208480 V phase to phase	

Adjustment of asymmetry threshold	515 % of Un selected	
Repeat accuracy	0.5 % for input and measurement circuit 3 % for time delay	
Measurement error	< 0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation	
Phase failure sensitivity	0.7 Un	
Response time	< 200 ms (in the event of a fault)	
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	
Supply frequency	50/60 Hz +/- 10 %	
Operating position	Any position without derating	
Connections - terminals	Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end	
Tightening torque	0.61 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 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 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	
Safety reliability data	MTTFd = 502.2 years 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 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	
Standards	IEC 60255-1	
Product certifications	GOST CSA GL C-Tick UL	

Marking	CE	
Directives	89/336/EEC - electromagnetic compatibility 73/23/EEC - low voltage directive	
Ambient air temperature for storage	-4070 °C	

Ambient air temperature for operation	-2050 °C	
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30	
Vibration resistance	0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6150 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	
Overvoltage category	III conforming to IEC 60664-1	
Dielectric test voltage	2 kV, 1 min AC 50 Hz conforming to IEC 60255-5 2 kV, 1 min AC 50 Hz conforming to IEC 60664-1	
Non-dissipating shock wave	4 kV conforming to IEC 60255-5 4 kV conforming to IEC 60664-1 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	92.000 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	4.700 kg

## **Contractual warranty**

Warranty (in months)



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 >

☑ Environmental footprint	
Total lifecycle Carbon footprint	98
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Ba9cbb5b-722a-41d2-b7d0-f60d5f3f104d
REACh Regulation	REACh Declaration

#### **Use Again**

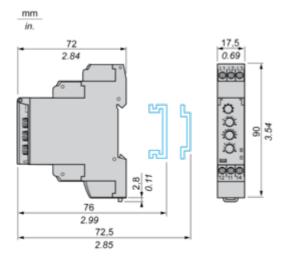
○ Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No

## **RM17TA00**

## **Dimensions Drawings**

## Multifunction 3-Phase Supply Control Relays

### **Dimensions and Mounting**



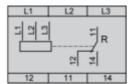
# Product data sheet

## **RM17TA00**

Connections and Schema

## Multifunction 3-Phase Supply Control Relays

## Wiring Diagram



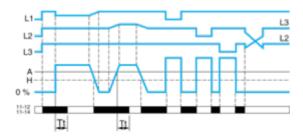
## **Product data sheet**

### **RM17TA00**

**Technical Description** 

#### **Function Diagram**

Phase Sequence Control, Phase Failure Detection (U measured  $< 0.7 \times 10^{-5}$  x nominal supply voltage), and Asymmetry Detection



#### Legend

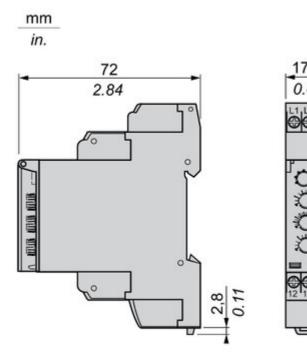
Tt Time delay after crossing of threshold L1, L2, L3 Phases of the supply voltage monitored A Asymmetry threshold H Hysteresis 11-12, 11-14 Output relay connections

Relay status: black color = energized.

3.54

## **Technical Illustration**

## **Dimensions**

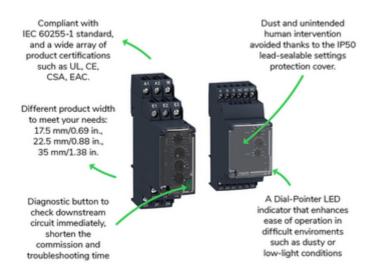


### Offer Marketing Illustration

#### Product benefits / Features

# **Technical Benefits**

#### Harmony Control Relay



### Offer Marketing Illustration

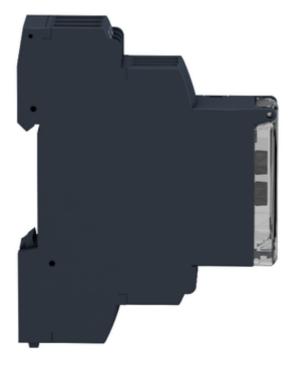
#### Product benefits / Features



Image of product / Alternate images

### **Alternative**









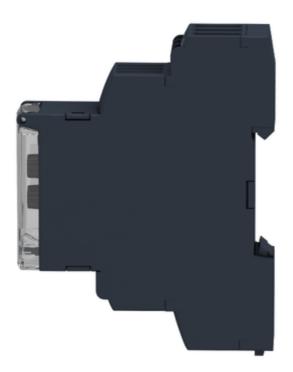




Image of product in real life situation

