

# Product data sheet

Specifications



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

RM17TG00

**Product availability:** Stock - Normally stocked in distribution facility

### Main

Range of Product	Harmony Control Relays
Relay Type	Control relay
Product or Component Type	3-phase control relay
Relay name	RM17TG
Relay monitored parameters	Phase sequence Phase failure detection (2 or more phase cut)
Measurement range	208...480 V AC
Time delay type	Without
Output contacts	1 C/O
nominal output current	5 A
Contacts type and composition	1 C/O
[Uc] control circuit voltage	208...480 V
Product Specific Application	For 3-phase supply

### Complementary

[Us] rated supply voltage	, self-powered
Supply voltage limits	183...528 V AC
Maximum switching voltage	250 V AC 250 V DC
Switching capacity in VA	1250 VA
Minimum switching current	10 mA 5 V DC
Control circuit voltage limits	- 12 % + 10 % Un
Power consumption in VA	0...22 VA 400 V AC 50 Hz
Voltage detection threshold	< 100 V AC
Control circuit frequency	50...60 Hz +/- 10 %
Measurement voltage limits	183...528 V AC
delay at power up	650 ms
Voltage range	183...528 V
Response time	<= 130 ms (in the event of a fault)
Insulation resistance	> 500 MOhm 500 V DC IEC 60255-5 > 500 MOhm 500 V DC IEC 60664-1
[Ui] rated insulation voltage	400 V IEC 60664-1
Supply frequency	50/60 Hz +/- 10 %

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<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>	5.3...8.9 lbf.in (0.6...1 N.m) IEC 60947-1
<b>Housing material</b>	Self-extinguishing plastic
<b>Local signalling</b>	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 IEC 60947-5-1 AC-13 IEC 60947-5-1 AC-14 IEC 60947-5-1 AC-15 IEC 60947-5-1 DC-12 IEC 60947-5-1 DC-13 IEC 60947-5-1
<b>Safety reliability data</b>	MTTFd = 924.6 years B10d = 850000
<b>Width</b>	0.7 in (17.5 mm)
<b>Net Weight</b>	0.29 lb(US) (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>	C-tick GL CSA UL GOST
<b>Marking</b>	CE
<b>Directives</b>	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
<b>Ambient Air Temperature for Storage</b>	-40...158 °F (-40...70 °C)
<b>Ambient air temperature for operation</b>	-4...122 °F (-20...50 °C)
<b>Relative humidity</b>	95 % 131 °F (55 °C) 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 11 ms IEC 60255-21-1
<b>IP degree of protection</b>	IP20 IEC 60529 terminals) IP30 IEC 60529 casing)
<b>Pollution degree</b>	3 IEC 60664-1
<b>Overvoltage category</b>	III conforming to IEC 60664-1
<b>Dielectric test voltage</b>	2 kV AC 50 Hz, 1 min
<b>Non-dissipating shock wave</b>	4 kV

## Ordering and shipping details

Category	US10CP222380
Discount Schedule	0CP2
GTIN	3389119405065
Returnability	Yes
Country of origin	ID

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.063 in (2.700 cm)
Package 1 Width	3.071 in (7.800 cm)
Package 1 Length	3.740 in (9.500 cm)
Package weight(Lbs)	2.892 oz (82.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	48
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	9.786 lb(US) (4.439 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	768
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	180.400 lb(US) (81.828 kg)

## Contractual warranty

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



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

Carbon footprint (kg CO2 eq, Total Life cycle)	74
--	----

Environmental Disclosure	<a href="#">Product Environmental Profile</a>
--------------------------	---

### Use Better

#### Materials and Substances

Packaging made with recycled cardboard	Yes
--	-----

Packaging without single use plastic	Yes
--------------------------------------	-----

<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
-----------------------------------	--

SCIP Number	Ba9cbb5b-722a-41d2-b7d0-f60d5f3f104d
-------------	--------------------------------------

REACH Regulation	<a href="#">REACH Declaration</a>
------------------	-----------------------------------

California proposition 65	<b>WARNING:</b> This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
---------------------------	--

### Use Longer

#### Lifetime extension

Repair	No
--------	----

### Use Again

#### Repack and remanufacture

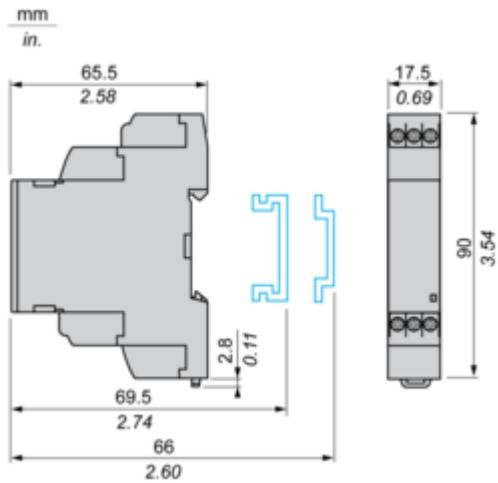
Circularity Profile	<a href="#">End of Life Information</a>
---------------------	---

Take-back	No
-----------	----

## Dimensions Drawings

3-Phase Supply Control Relays

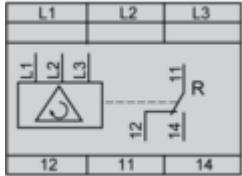
## Dimensions and Mounting



## Connections and Schema

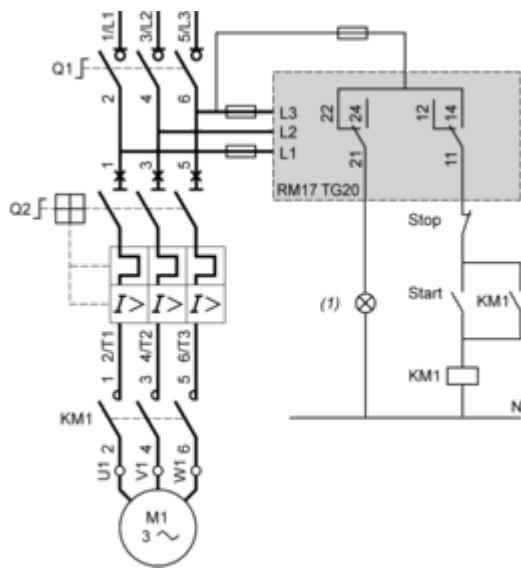
## 3-Phase Supply Control Relays

## Wiring Diagram



Application Scheme

## Example

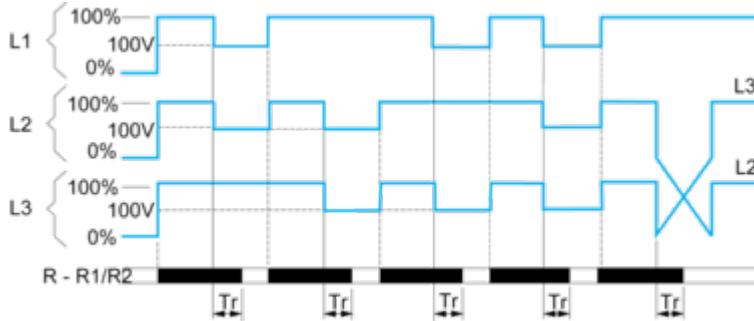


(1) Fault

## Technical Description

Function Diagram

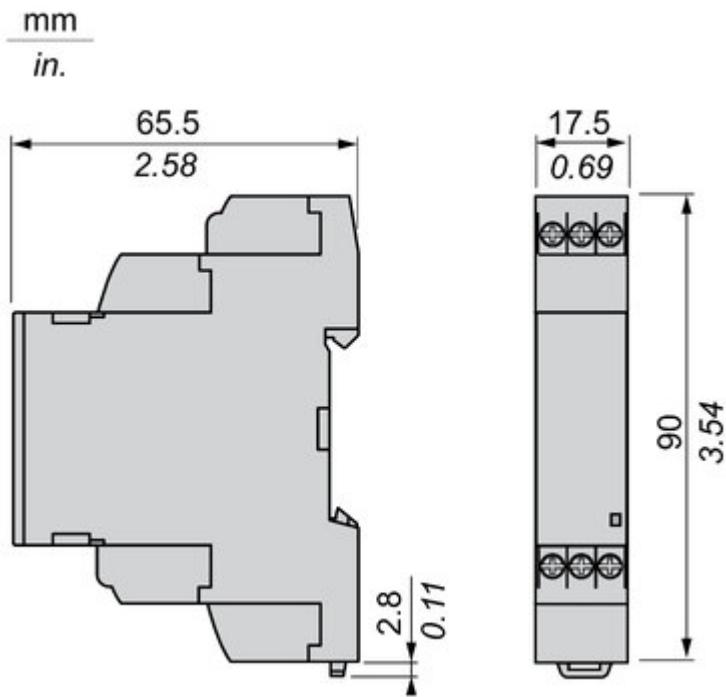
## Phase Sequence Control and Total Loss of Phase Detection

**Legend**

- Tr Response time on appearance of a fault
- L1, L2, L3 Phases of the supply voltage monitored
- R - R1/R2 Output relay(s),  
Relay status: black color = energized.

## Technical Illustration

## Dimensions



## 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-CO<sub>2</sub> product

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

## Offer Marketing Illustration

## Product benefits / Features

## Technical Benefits

## Harmony Control Relay

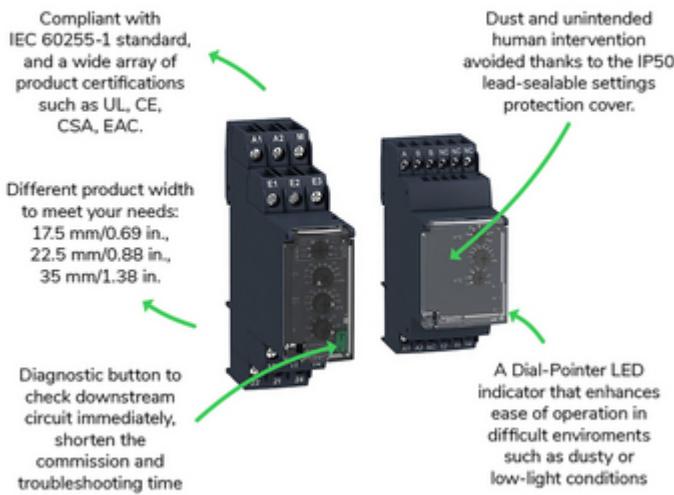


Image of product / Alternate images

Alternative

---



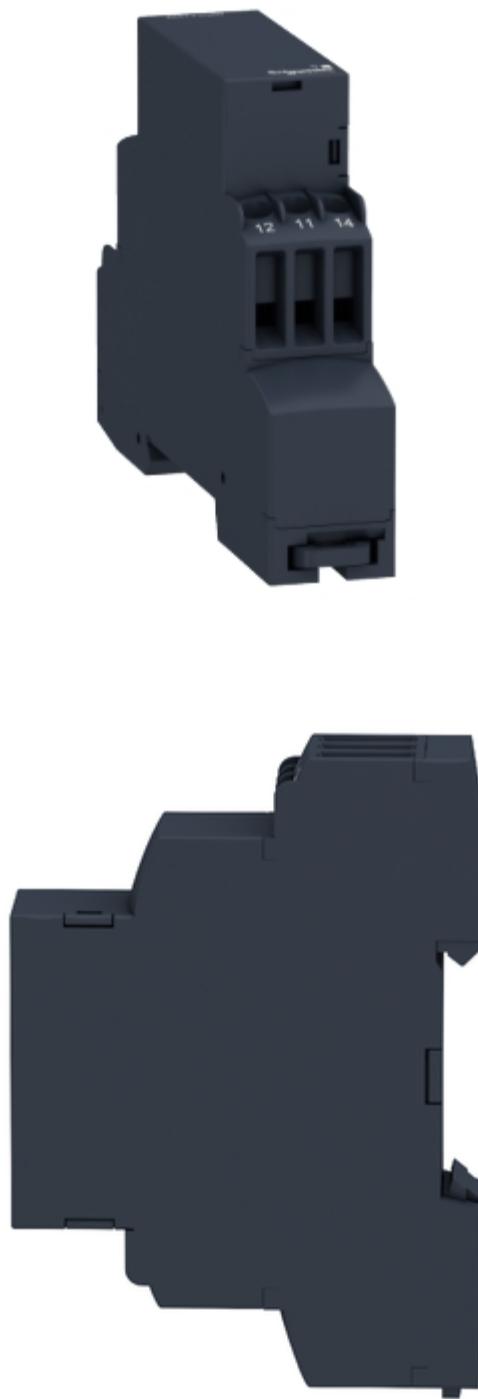




Image of product in real life situation

