

# Product datasheet

Specifications



## Modular measurement and relay, Harmony relay, for 3-phase supply, without time delay, 183...528V AC, 1 C/O

RM10TG00

### Main

|                              |   |
|------------------------------|---|
| Range of product             | Harmony Relay                             |
| Relay type                   | Control relay                             |
| Product or component type    | Modular measurement and control relays    |
| Relay name                   | RM10TG                                    |
| Relay monitored parameters   | Phase sequence<br>Phase failure detection |
| Time delay type              | Without                                   |
| Output contacts              | 1 C/O                                     |
| nominal output current       | 5 A                                       |
| Product specific application | For 3-phase supply                        |

### Complementary

|                                |  |
|--------------------------------|--|
| Supply voltage limits          | 183...528 V AC   |
| Maximum switching voltage      | 250 V AC<br>250 V DC   |
| Switching capacity in VA       | 1250 VA  |
| Minimum switching current      | 10 mA at 5 V DC  |
| Control circuit voltage limits | - 12 % + 10 % Un   |
| Power consumption in VA        | 0...22 VA at 400 V AC 50 Hz  |
| Voltage detection threshold    | < 100 V AC   |
| Control circuit frequency      | 50...60 Hz +/- 10 %  |
| 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 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 mm <sup>2</sup> (AWG 20...AWG 11) solid without cable end<br>Screw terminals, 2 x 0.5...2 x 2.5 mm <sup>2</sup> (AWG 20...AWG 14) solid without cable end<br>Screw terminals, 1 x 0.2...1 x 2.5 mm <sup>2</sup> (AWG 24...AWG 12) flexible with cable end<br>Screw terminals, 2 x 0.2...2 x 1.5 mm <sup>2</sup> (AWG 24...AWG 16) flexible with cable end |
| Tightening torque              | 0.6...1 N.m conforming to IEC 60947-1  |

|                                |  |
|--------------------------------|--|
| <b>Housing material</b>        | Polycarbonate  |
| <b>Local signalling</b>        | LED (yellow) for relay ON  |
| <b>Mounting support</b>        | 35 mm symmetrical DIN rail conforming to EN/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<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 |
| <b>Safety reliability data</b> | B10d = 850000<br>MTTFd = 924.6 years   |
| <b>Width</b>                   | 17.5 mm  |
| <b>Product weight</b>          | 0.13 kg  |

## Environment

|  |   |
|--|---|
| <b>Electromagnetic compatibility</b>         | Emission standard for industrial environments conforming to EN/IEC 61000-6-4<br>Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3<br>Immunity for industrial environments conforming to EN/IEC 61000-6-2 |
| <b>Standards</b>                             | EN/IEC 60255-1  |
| <b>Product certifications</b>                | C-Tick<br>GOST<br>UL<br>CSA<br>GL   |
| <b>Marking</b>                               | CE  |
| <b>Directives</b>                            | 89/336/EEC - electromagnetic compatibility<br>73/23/EEC - low voltage directive   |
| <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<br>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<br>IP30 (casing) conforming to IEC 60529   |
| <b>Pollution degree</b>                      | 3 conforming to IEC 60664-1   |
| <b>Overvoltage category</b>                  | III conforming to IEC 60664-1   |
| <b>Dielectric test voltage</b>               | 2 kV, 1 min AC 50 Hz  |
| <b>Non-dissipating shock wave</b>            | 4 kV  |

## Packing Units

|                                     |       |
|-------------------------------------|-------|
| <b>Unit Type of Package 1</b>       | PCE   |
| <b>Number of Units in Package 1</b> | 1     |
| <b>Package 1 Height</b>             | 27 cm |
| <b>Package 1 Width</b>              | 78 cm |

|                                     |         |
|-------------------------------------|---------|
| <b>Package 1 Length</b>             | 97 cm   |
| <b>Package 1 Weight</b>             | 92 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>             | 4830 g  |
| <b>Unit Type of Package 3</b>       | P06     |
| <b>Number of Units in Package 3</b> | 768     |
| <b>Package 3 Height</b>             | 70 cm   |
| <b>Package 3 Width</b>              | 60 cm   |
| <b>Package 3 Length</b>             | 80 cm   |
| <b>Package 3 Weight</b>             | 82280 g |

## Contractual warranty

|                             |    |
|-----------------------------|----|
| <b>Warranty (in months)</b> | 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 >](#)



### Environmental footprint

|  |                |
|--|----------------|
| Total lifecycle Carbon footprint                       | 73 kg CO2 eq.  |
| Carbon footprint of the manufacturing phase [A1 to A3] | 2 kg CO2 eq.   |
| Carbon footprint of the distribution phase [A4]        | 0 kg CO2 eq.   |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.   |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 71 kg CO2 eq.  |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.2 kg CO2 eq. |

## Use Better



### Materials and Substances

|  |  |
|--|--|
| Packaging made with recycled cardboard | Yes  |
| Packaging without single use plastic   | Yes  |
| SCIP Number                            | 9f31f7ce-d4c6-4c73-bbc7-5028e12603b6   |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>   |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

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