Product data sheet

Specifications



3-phase control relay, Harmony Control Relays, 5A, 2CO, 208...480V AC

RM17TG20

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Harmony Control Relays
Relay Type	Control relay
Relay name	RM17TG
Product or Component Type	3-phase control relay
Relay monitored parameters	Phase sequence Phase failure detection (2 or more phase cut)
Control Type	Without test button
Contacts type and composition	2 C/O
[Uc] control circuit voltage	208...440 V
Product Specific Application	For 3-phase supply

Complementary

[Us] rated supply voltage	, self-powered
Supply voltage limits	183…484 V AC
Supply frequency	50/60 Hz +/- 10 %
Power consumption in VA	0…22 VA 400 V AC 50 Hz
Measurement range	208...480 V AC
Measurement voltage limits	183…484 V AC
Voltage detection threshold	< 100 V AC
Time delay type	Without
Response time	<= 130 ms (in the event of a fault)
delay at power up	650 ms
Output contacts	2 C/O
nominal output current	5 A
Maximum switching voltage	250 V AC
Switching capacity in VA	1250 VA
Minimum switching current	10 mA 5 V DC
Electrical durability	100000 cycles
Mechanical durability	30000000 cycles
Utilisation category	AC-12 IEC 60947-5-1 AC-13 IEC 60947-5-1 AC-14 IEC 60947-5-1 AC-15 IEC 60947-5-1

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Control circuit voltage limits	- 12 % + 10 % Un
Control circuit frequency	50...60 Hz +/- 10 %

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 C-tick UL CSA GL
Marking	CE
Directives	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
Ambient Air Temperature for Storage	-40…158 °F (-40…70 °C)
Ambient air temperature for operation	-4…122 °F (-20…50 °C)
Relative humidity	95 % 131 °F (55 °C) IEC 60068-2-30
Vibration resistance	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
Shock resistance	15 gn 11 ms IEC 60255-21-1
IP degree of protection	IP20 IEC 60529 terminals) IP30 IEC 60529 casing)
Pollution degree	3 IEC 60664-1
Overvoltage category	III conforming to IEC 60664-1
Dielectric test voltage	2 kV AC 50 Hz, 1 min
Insulation resistance	> 500 MOhm 500 V DC IEC 60255-5
[Ui] rated insulation voltage	400 V IEC 60664-1
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 Screw terminals, 2 x 0.5...2 x 2.5 mm² AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm² AWG 24...AWG 12) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm² AWG 24...AWG 16) flexible with cable end
Tightening torque	5.3…8.9 lbf.in (0.6…1 N.m) IEC 60947-1
Housing material	Polycarbonate
Local signalling	LED (yellow) for relay ON
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715
Safety reliability data	B10d = 850000 MTTFd = 924.6 years
Height	3.5 in (90 mm)
Width	0.7 in (17.5 mm)
Depth	2.8 in (72 mm)
Product Weight	0.187 lb(US) (0.085 kg)

Ordering and shipping details

Category	US10CP222380

Discount Schedule	0CP2
GTIN	3389119405072
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	0.906 in (2.300 cm)
Package 1 Width	3.071 in (7.800 cm)
Package 1 Length	3.819 in (9.700 cm)
Package weight(Lbs)	3.175 oz (90.000 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	10.648 lb(US) (4.830 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	192.252 lb(US) (87.204 kg)

Contractual warranty

Warranty (in months)	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	**74 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**3 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.4 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]	**0.4 kg CO2 eq.**
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
SCIP Number	**Ba9cbb5b-722a-41d2-b7d0-f60d5f3f104d**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
California proposition 65	**WARNING: 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 www.P65Warnings.ca.gov**

Use Longer

Lifetime extension

Repair	**No**

Use Again

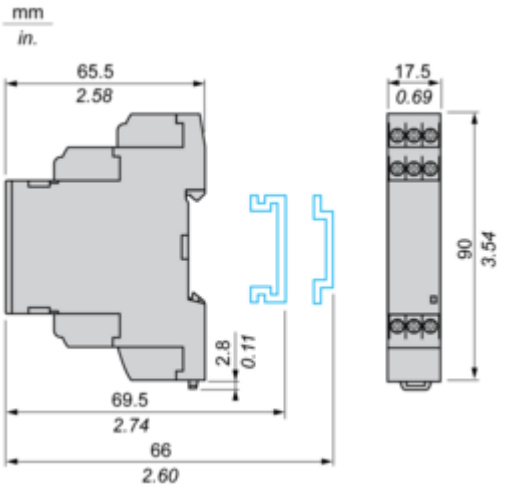
Repack and remanufacture

Recyclability potential, in %	**0**
Circularity Profile	End of Life Information
Take-back	**No**

Dimensions Drawings

3-Phase Supply Control Relays

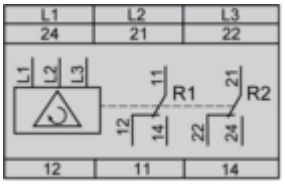
Dimensions and Mounting



Connections and Schema

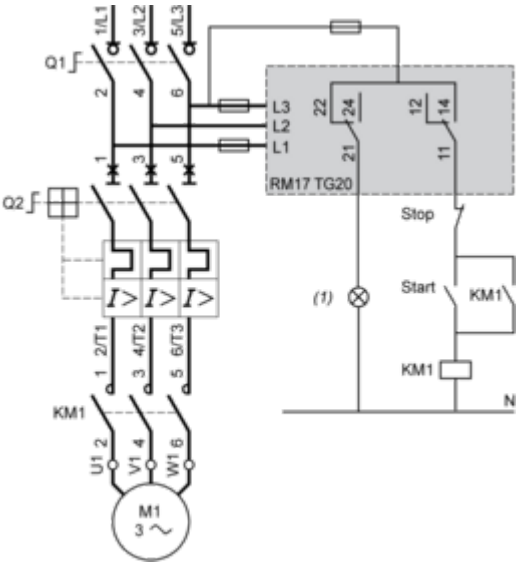
3-Phase Supply Control Relays

Wiring Diagram



Application Scheme

Example

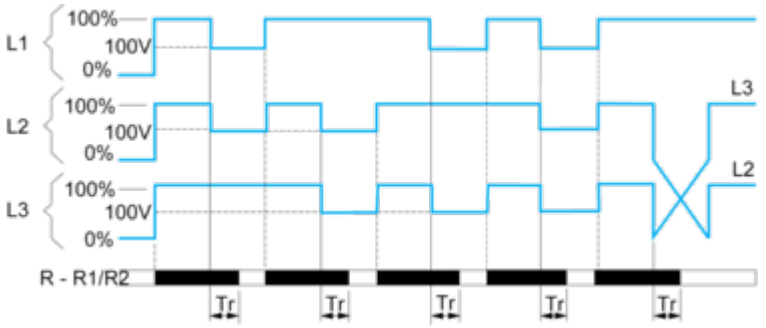


(1) Fault

Technical Description

Function Diagram

Phase Sequence Control and Total Loss of Phase Detection

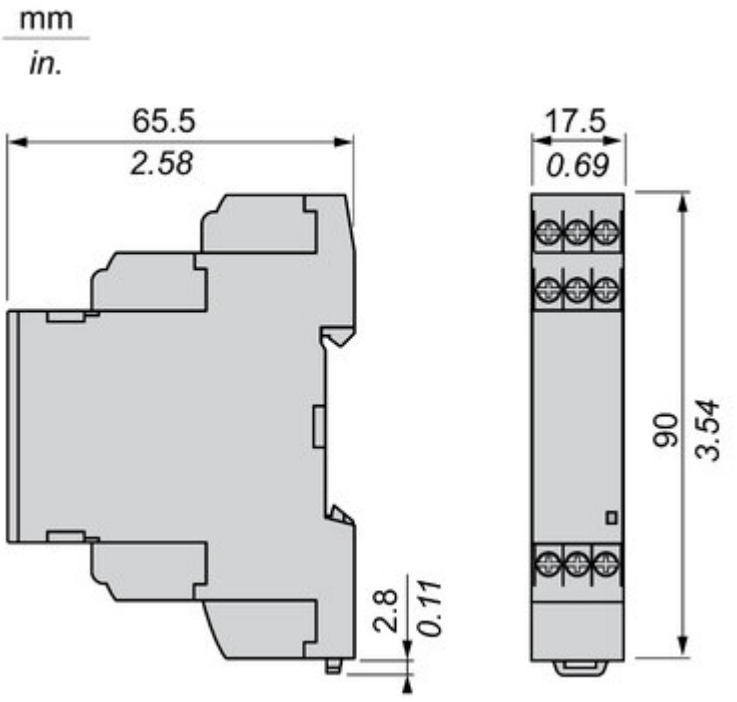


Legend

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



Offer Marketing Illustration

Product benefits / Features

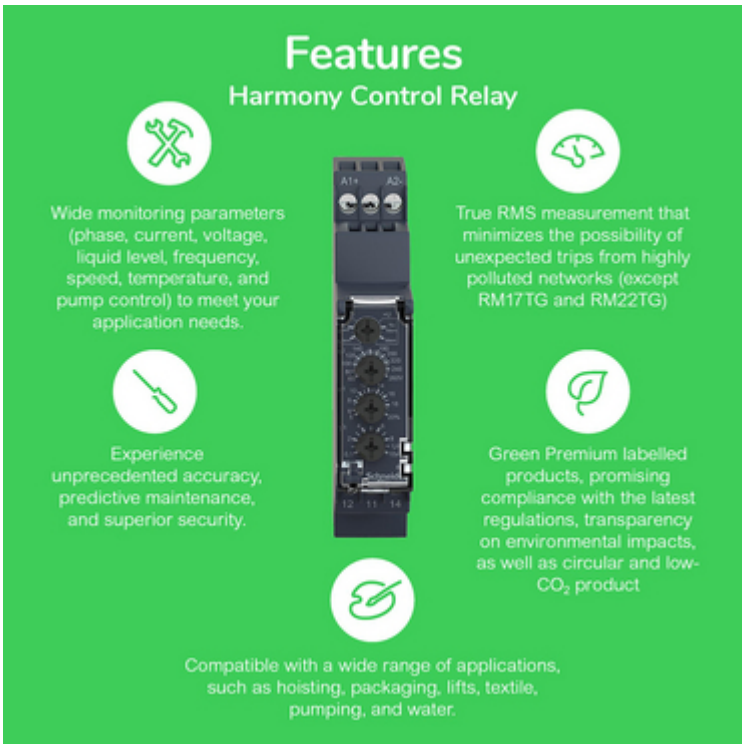
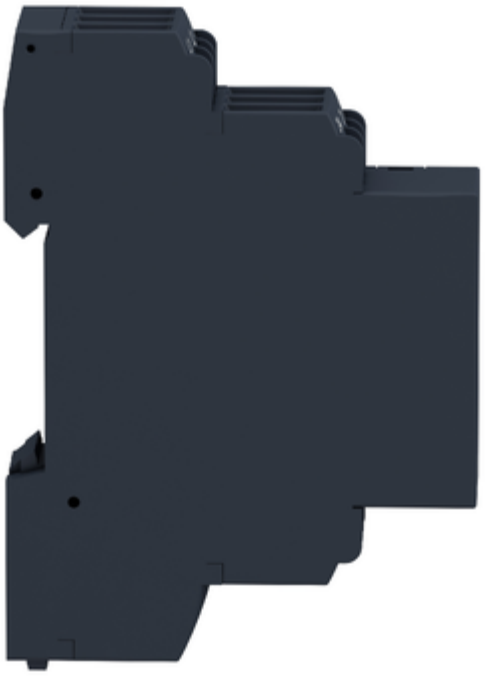


Image of product / Alternate images

Alternative












L1 L2 L3
24 21 22
RM17TG20
Schneider Electric
12 11 14

Image of product in real life situation

