Product datasheet

Specifications



Modular 3-phase supply control relay, 5 A, 2 CO, 208...440 V AC

Local distributor code:

389834793 RM17TG20

EAN Code: 3389119405072

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)
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 at 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)
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 at 5 V DC
Electrical durability	100000 cycles
Mechanical durability	30000000 cycles
Control circuit voltage limits	- 12 % + 10 % Un
Control circuit frequency	50...60 Hz +/- 10 %

Environment

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

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…70 °C -40…70 °C
Ambient air temperature for operation	-20…50 °C
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30
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
Insulation resistance	> 500 MOhm at 500 V DC conforming to IEC 60255-5
[Ui] rated insulation voltage	400 V conforming to IEC 60664-1
Operating position	Any position without derating
Connections - terminals	Screw terminals, 1 x 0.5...1 x 4 mm² (20 AWG...11 AWG) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm² (20 AWG...14 AWG) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm² (24 AWG...12 AWG) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm² (24 AWG...16 AWG) flexible with cable end
Tightening torque	0.6…1 N.m conforming to IEC 60947-1
Housing material	Polycarbonate
Local signalling	LED (yellow) for relay ON
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715
Reliability data	B10d = 850000 MTTFd = 924.6 years
Height	90 mm 88.9 mm
Width	17.5 mm 17.8 mm
Depth	72 mm 71.1 mm
Net weight	0.085 kg 0.09 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.300 cm
Package 1 Width	7.800 cm

Package 1 Length	9.700 cm
Package 1 Weight	90.000 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	4.830 kg
Unit Type of Package 3	P06
Number of Units in Package 3	768
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	87.204 kg

Logistical informations

Country of origin	ID

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

Use Again

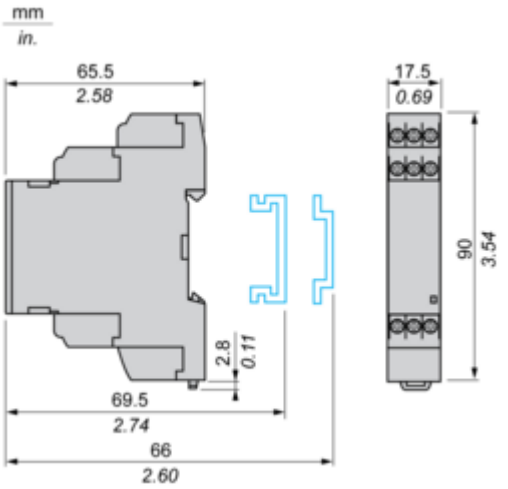
Repack and remanufacture

Recyclability potential, in %	**0**
End of life manual availability	End of Life Information
Take-back	**No**

Dimensions Drawings

3-Phase Supply Control Relays

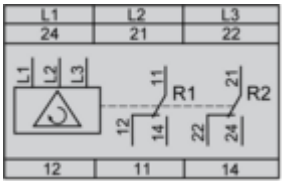
Dimensions and Mounting



Connections and Schema

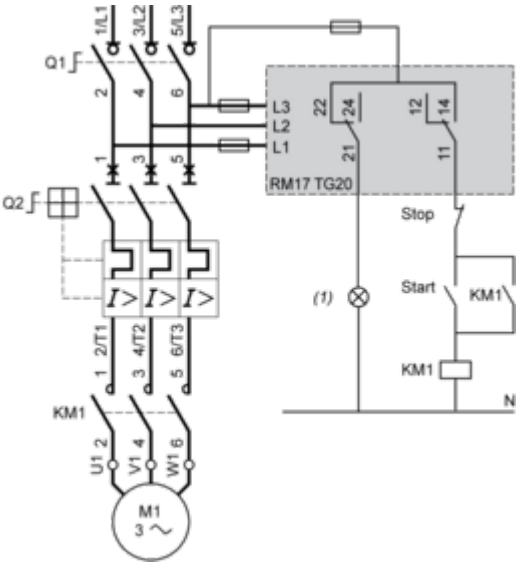
3-Phase Supply Control Relays

Wiring Diagram



Application Scheme

Example

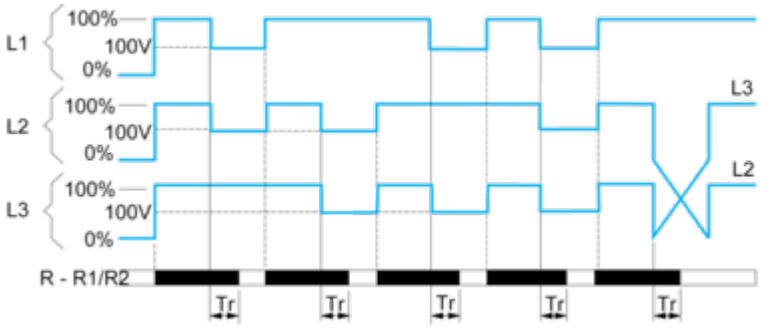


(1) Fault

Technical Description

Function Diagram

Phase Sequence Control and Total Loss of Phase Detection



Legend

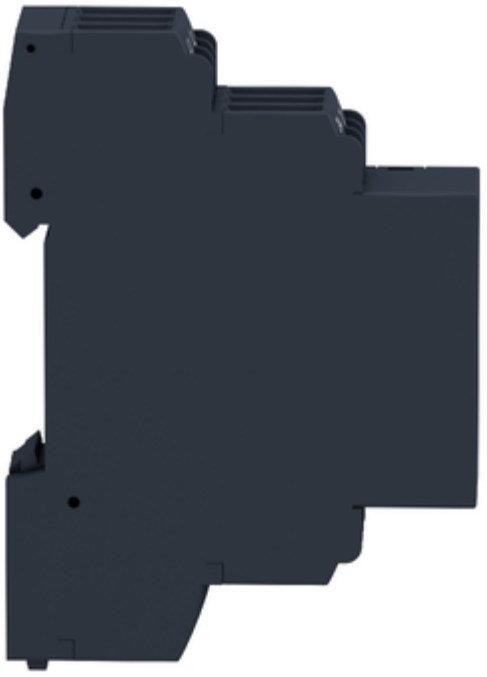
Tr Response time on appearance of a fault
L1, L2, L3 Phases of the supply voltage monitored
R - R1/R2 Output relay(s),
Relay status: black color = energized.

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

