



Modular 3-phase supply control relay, 5 A, 1 CO, 208...480 V AC

RM17TG00

Main

Range of product	Harmony Control Relays
Product or component type	3-phase control relay
Relay type	Control relay
Product specific application	For 3-phase supply
Relay name	RM17TG
Relay monitored parameters	Phase sequence Phase failure detection (2 or more phase cut)
Time delay	Without
Switching capacity in VA	1250 VA
Measurement range	208480 V voltage AC
Contacts type and composition	1 C/O
[Uc] control circuit voltage	208480 V

Complementary

,	
Maximum switching voltage	250 V AC 250 V DC
Minimum switching current	10 mA at 5 V DC
Supply voltage limits	183528 V AC
Control circuit voltage limits	- 12 % + 10 % Un
Power consumption in VA	022 VA at 400 V AC 50 Hz
Voltage detection threshold	< 100 V AC
Control circuit frequency	5060 Hz +/- 10 %
Output contacts	1 C/O
Nominal output current	5 A
Measurement voltage limits	183528 V AC
Delay at power up	650 ms
Voltage range	183528 V
Response time	<= 130 ms (in the event of a fault)
Marking	CE
Overvoltage category	III conforming to IEC 60664-1

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 (yellow) for relay ON
Mounting support	35 mm symmetrical DIN rail conforming to EN/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 = 924.6 years B10d = 850000
Width	17.5 mm
Net weight	0.13 kg
Environment	
Electromagnetic compatibility	Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to EN/IEC 61000-6-2
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Standards	EN/IEC 60255-1
Product certifications	
	EN/IEC 60255-1 C-Tick GL CSA UL
Product certifications	EN/IEC 60255-1 C-Tick GL CSA UL GOST 73/23/EEC - low voltage directive
Product certifications Directives Ambient air temperature for	EN/IEC 60255-1 C-Tick GL CSA UL GOST 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
Product certifications Directives Ambient air temperature for storage Ambient air temperature for	EN/IEC 60255-1 C-Tick GL CSA UL GOST 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility -4070 °C
Product certifications Directives Ambient air temperature for storage Ambient air temperature for operation	EN/IEC 60255-1 C-Tick GL CSA UL GOST 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility -4070 °C
Product certifications Directives Ambient air temperature for storage Ambient air temperature for operation Relative humidity	EN/IEC 60255-1 C-Tick GL CSA UL GOST 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility -4070 °C -2050 °C 95 % at 55 °C conforming to IEC 60068-2-30 0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6

3 conforming to IEC 60664-1

2 kV, 1 min AC 50 Hz

4 kV

Pollution degree

Dielectric test voltage

Non-dissipating shock wave

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.700 cm
Package 1 Width	7.800 cm
Package 1 Length	9.500 cm
Package 1 Weight	85.900 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	4.715 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	81.828 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

Warranty 18 months

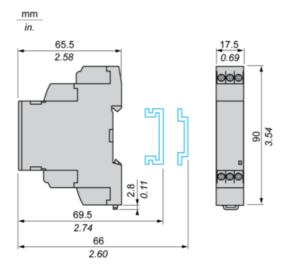
Product datasheet

RM17TG00

Dimensions Drawings

3-Phase Supply Control Relays

Dimensions and Mounting



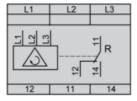
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Connections and Schema

3-Phase Supply Control Relays

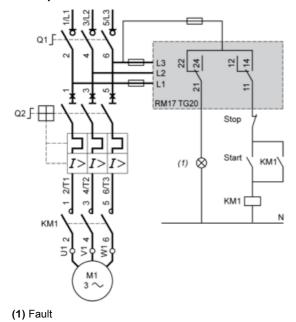
Wiring Diagram



Connections and Schema

Application Scheme

Example



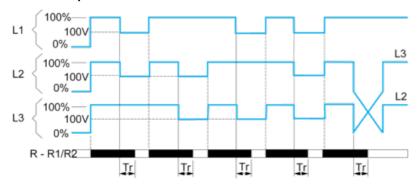
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Technical Description

Function Diagram

Phase Sequence Control and Total Loss of Phase Detection



Legend

 $\ensuremath{ \mbox{Tr}}$ 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.

Recommended replacement(s)