



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

RM17TG20



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	208440 V voltage AC	
Contacts type and composition	2 C/O	
[Uc] control circuit voltage	208440 V	

Complementary		
Maximum switching voltage	250 V AC 250 V DC	
Minimum switching current	10 mA at 5 V DC	
Supply voltage limits	183484 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	2 C/O	
Nominal output current	5 A	
Measurement voltage limits	183484 V AC	
Delay at power up	650 ms	
Voltage range	183484 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	10000 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	B10d = 850000 MTTFd = 924.6 years		
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		
Standards	EN/IEC 60255-1		
Product certifications	GOST C-Tick UL CSA GL		
Directives	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility		
Ambient air temperature for storage	-4070 °C		
Ambient air temperature for			
operation	-2050 °C		
	-2050 °C 95 % at 55 °C conforming to IEC 60068-2-30		
operation			
operation Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30 0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6		
operation Relative humidity Vibration resistance	95 % at 55 °C conforming to IEC 60068-2-30 0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6150 Hz) conforming to IEC 60255-21-1		
operation Relative humidity Vibration resistance Shock resistance	95 % at 55 °C conforming to IEC 60068-2-30 0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6150 Hz) conforming to IEC 60255-21-1 15 gn for 11 ms conforming to IEC 60255-21-1 IP20 (terminals) conforming to IEC 60529		
operation Relative humidity Vibration resistance Shock resistance IP degree of protection	95 % at 55 °C conforming to IEC 60068-2-30 0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6150 Hz) conforming to IEC 60255-21-1 15 gn for 11 ms conforming to IEC 60255-21-1 IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529		

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	98.0 g	
Package 1 Height	2.7 cm	
Package 1 width	7.8 cm	
Package 1 Length	9.7 cm	\ /
Unit Type of Package 2	S02	
Number of Units in Package 2	48	
Package 2 Weight	5.15 kg	/
Package 2 Height	15 cm	
Package 2 width	30 cm	
Package 2 Length	40 cm	
Unit Type of Package 3	P06	
Number of Units in Package 3	768	
Package 3 Weight	87.204 kg	
Package 3 Height	77 cm	
Package 3 width	80 cm	
Package 3 Length	60 cm	

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		
RoHS exemption information	Yes		
China RoHS Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End of Life Information		
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		

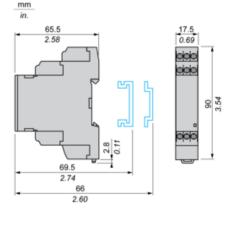
Contractual warranty

10/	10	
Warranty	18 months	
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Dimensions Drawings

3-Phase Supply Control Relays

Dimensions and Mounting



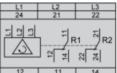


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Connections and Schema

3-Phase Supply Control Relays

Wiring Diagram

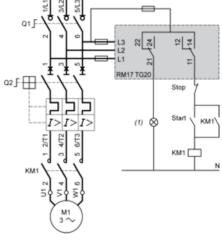




Connections and Schema

Application Scheme

Example







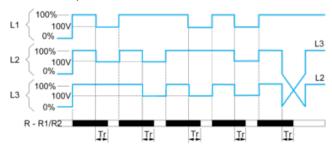
Product data sheet

RM17TG20

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.

