# Product datasheet Characteristics

### **RM17TA00**

# multifunction control relay RM17-TA - range 183..528 V AC



#### Main

Wichin		
Range of product	Zelio Control	
Product or component type	Modular measurement and control relays	
Relay type	Multifunction control relay	
Product specific application	For 3-phase supply	
Relay name	RM17TA	
Relay monitored parameters	Phase failure detection Asymmetry Phase sequence	
Time delay type	Adjustable 0.110 s, +/- 10 % of the full scale value	
Switching capacity in VA	1250 VA	
Measurement range	183528 V AC	

#### Complementary

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Reset time	1500 ms for time delay	
Maximum switching voltage	250 V AC	
	250 V DC	 
Minimum switching current	10 mA at 5 V DC	4
Maximum switching current	5 A AC	,
	5 A DC	
Supply voltage limits	183528 V AC	
Control circuit voltage limits	- 12 % + 10 % Un	7
Power consumption in VA	<= 22 VA at 400 V AC 50 Hz	
Control circuit frequency	5060 Hz +/- 10 %	2.
Output contacts	1 C/O	
Nominal output current	5 A	
Hysteresis	2 %	7
Run-up delay at power-up	<= 650 ms	
Measuring cycle	<= 150 ms measurement cycle as true rms value	
Threshold adjustment voltage	-212 % in the range 208 V AC	<u>.</u> 2

	+2+17 % in the range 480 V AC -217 % in the range 220 V AC	
	220 % of Un selected	
Voltage range	208480 V phase to phase	
Adjustment of asymmetry threshold	515 % of Un selected	
Repeat accuracy	0.5 % for input and measurement circuit 3 % for time delay	
Measurement error	< 0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation	
Phase failure sensitivity	0.7 Un	
Response time	< 200 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	
Connections - terminals	Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 2 x 0.52 x 2.5 mm² - AWG 20AWG 14, solid cable without cable end Screw terminals 1 x 0.21 x 2.5 mm² - AWG 24AWG 12, flexible cable with cable end Screw terminals 2 x 0.22 x 1.5 mm² - AWG 24AWG 16, flexible cable with cable end	
Tightening torque	0.61 N.m conforming to IEC 60947-1	
Housing material	Self-extinguishing plastic	
Local signalling	LED green for power ON 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 under 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 = 502.2 years B10d = 470000	
Width	17.5 mm	
Product 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/IE 61000-6-3 Immunity for industrial environments conforming to EN/IEC 61000-6-2	
Standards	EN/IEC 60255-1	

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 CSA C-Tick UL GL	
Directives	89/336/EEC - electromagnetic compatibility 73/23/EEC - low voltage directive	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-2050 °C	
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30	
Vibration resistance	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	
Shock resistance	15 gn for 11 ms conforming to IEC 60255-21-1	

IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529	
Pollution degree	3 conforming to IEC 60664-1	
Dielectric test voltage	2 kV 1 min AC 50 Hz conforming to IEC 60255-5 2 kV 1 min AC 50 Hz conforming to IEC 60664-1	
Non-dissipating shock wave	4 kV conforming to IEC 60255-5 4 kV conforming to IEC 60664-1 4 kV conforming to IEC 61000-4-5	

#### Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0701 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
	End of life manual	
Product end of life instructions	Available	

#### Contractual warranty

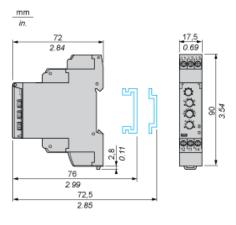
Warranty period	18 months	

# Product datasheet RM17TA00

# Dimensions Drawings

### Multifunction 3-Phase Supply Control Relays

### **Dimensions and Mounting**

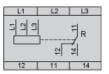


# Product datasheet Connections and Schema

### **RM17TA00**

### Multifunction 3-Phase Supply Control Relays

#### Wiring Diagram



# Product datasheet Technical Description

### **RM17TA00**

#### **Function Diagram**

Phase Sequence Control, Phase Failure Detection (U measured < 0.7 x nominal supply voltage), and Asymmetry Detection

#### Legend

Tt Time delay after crossing of threshold L1, L2, L3 Phases of the supply voltage monitored A Asymmetry threshold H Hysteresis 11-12, 11-14 Output relay connections Relay status: black color = energized.