Product data sheet Characteristics

RM17TA00

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



Main

Widin	
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	Asymmetry Phase failure detection Phase sequence
Time delay	Adjustable 0.110 s, +/- 10 % of the full scale value
Switching capacity in VA	1250 VA
Measurement range	183528 V AC

Complementary

o implication tally	
Reset time	1500 ms for time delay
Maximum switching voltage	250 V DC 250 V AC
Minimum switching current	10 mA at 5 V DC
Maximum switching current	5 A DC 5 A AC
Supply voltage limits	183528 V AC
Control circuit voltage limits	- 12 % + 10 % Un
Power consumption in VA	<= 22 VA at 400 V AC 50 Hz
Control circuit frequency	5060 Hz +/- 10 %
Output contacts	1 C/O
Nominal output current	5 A
Hysteresis	2 %
Delay at power up	<= 650 ms
Measuring cycle	<= 150 ms measurement cycle as true rms value
Threshold adjustment voltage	+2+17 % in the range 480 V AC -212 % in the range 208 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	3 % for time delay 0.5 % for input and measurement circuit
Measurement error	< 1 % over the whole range with voltage variation < 0.05 %/°C with temperature 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 60664-1 > 500 MOhm at 500 V DC conforming to IEC 60255-5
[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 2 x 0.22 x 1.5 mm² - AWG 24AWG 16, flexible cable with cable end
	Screw terminals 1 x 0.21 x 2.5 mm ² - AWG 24AWG 12, flexible cable with ca- ble end
	Screw terminals 2 x 0.52 x 2.5 mm ² - AWG 20AWG 14, solid cable without cable end
	Screw terminals 1 x 0.51 x 4 mm ² - AWG 20AWG 11, solid cable without 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 LED green for power 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	DC-13 conforming to IEC 60947-5-1
	DC-12 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1
	AC-13 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1
	AC-13 conforming to IEC 60947-5-1
	AC-12 conforming to IEC 60947-5-1
Width	17.5 mm
Product weight	0.13 kg
Electromagnetic compatibility	Immunity for industrial environments conforming to EN/IEC 61000-6-2 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/IEC 61000-6-4
Standards	Emission standard for industrial environments conforming to EN/IEC 61000-6-4 EN/IEC 60255-1
	CSA
Product certifications	C-Tick
	GL
	GOST UL
Directives	89/336/EEC - electromagnetic compatibility
Ambient eistemperature for eteroge	73/23/EEC - low voltage directive -4070 °C
Ambient air temperature for storage Ambient air temperature for operation	-2050 °C
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30
Vibration resistance	1 gn (f = 57.6150 Hz) conforming to IEC 60255-21-1
Vibration resistance	0.35 mm (f = 557.6 Hz) conforming to IEC 60068-2-6
Shock resistance	15 gn for 11 ms conforming to IEC 60255-21-1
IP degree of protection	IP30 (casing) conforming to IEC 60529 IP20 (terminals) conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Dialoctric test voltage	2 kV 1 min AC 50 Hz conforming to IEC 60664-1
Dielectric test voltage	2 kV 1 min AC 50 Hz conforming to IEC 60255-5

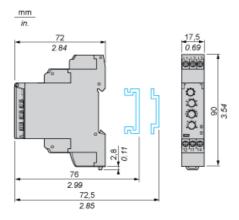


Product data sheet Dimensions Drawings

RM17TA00

Multifunction 3-Phase Supply Control Relays

Dimensions and Mounting

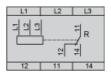


Product data sheet Connections and Schema

RM17TA00

Multifunction 3-Phase Supply Control Relays

Wiring Diagram

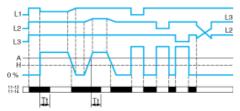


Product data sheet Technical Description

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.