Product datasheet **Characteristics**

RM22TA33

three-Phase Asymmetry control relay 380...480Vac, 2 C/O





Main

Main	
Range of product	Zelio Control
Product or component type	Modular measurement and control relays
Relay type	Control relay
Network number of phases	3 phases
Relay name	RM22TA
Relay monitored parameters	Asymmetry Phase failure detection Phase sequence
Time delay type	Adjustable 0.130 s, +/- 10 % of the full scale value on crossing the threshold Tt
Switching capacity in VA	2000 VA
Measurement range	380480 V voltage AC

Complementary

< 1500 mc at maximum voltage
<= 1500 ms at maximum voltage
250 V AC
10 mA at 5 V DC
8 A AC
380480 V AC
304576 V AC
- 20 % + 20 % Un
15 VA at 480 V AC 60 Hz
< 100 V AC
5060 Hz +/- 10 %
2 C/O
+/- 10 % of the full scale
<= 0.05 % per degree centigrade depending permissible ambient air temperature <= 1 % within the supply voltage range
10 P
<= 0.05 % per degree centigrade depending permissible ambient air temperature <= 1 % within the supply voltage range
2 % fixed of selectable
<= 650 ms
150 ms measurement cycle as true rms value
220 % of Un selected
380480 V phase to phase
515 % of Un selected
+/- 0.5 % input and measurement circuit +/- 3 % time delay
< 0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation
<= 300 ms
III conforming to IEC 60664-1 III conforming to UL 508
> 100 MOhm at 500 V DC conforming to IEC 60255-27
Any position
Screw terminals 2 x 0.52 x 2.5 mm ² - AWG 20AWG 14, solid cable without cable end



	Screw terminals 2 x 0.22 x 1.5 mm ² - AWG 24AWG 16, flexible cable with cable end Screw terminals 1 x 0.51 x 3.3 mm ² - AWG 20AWG 12, solid cable without cable end Screw terminals 1 x 0.21 x 2.5 mm ² - AWG 24AWG 14, flexible cable with cable end
Tightening torque	0.61 N.m conforming to IEC 60947-1
Housing material	Self-extinguishing plastic
Status LED	LED yellow for relay ON LED green for power ON
Mounting support	35 mm DIN rail conforming to EN/IEC 60715
Electrical durability	100000 cycles
Mechanical durability	1000000 cycles
Utilisation category	AC-15 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 AC-1 conforming to IEC 60947-4-1 DC-1 conforming to IEC 60947-4-1
Safety reliability data	MTTFd = 388.1 years B10d = 350000
Contacts material	Cadmium free
Width	22.5 mm
Product weight	0.09 kg

Environment

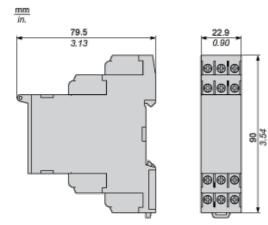
Emission standard for residential, commercial and light-industrial environments conforming to EN/EC 61000-6-3 Immunity for industrial environments conforming to EN/EC 61000-6-2 Conducted and radiated emissions class B conforming to EC 61000-4-2 Electrostatic discharge 6 KV level 3 contact discharge conforming to EC 61000-4-2 Electrostatic discharge 6 KV level 3 contact discharge conforming to EC 61000-4-2 Electrostatic discharge 6 KV level 3 contact discharge conforming to EC 61000-4-2 Electrostatic discharge 6 KV level 3 contact discharge conforming to EC 61000-4-2 Electrostatic discharge 6 KV level 3 contact discharge conforming to EC 61000-4-2 Electrostatic discharge 6 KV level 4 differential mode conforming to EC 61000-4-5 Surge immunity test 4 KV level 4 differential mode conforming to EC 61000-4-5 Surge immunity test 4 kV level 4 differential mode conforming to EC 61000-4-5 Surge immunity test 4 kV level 4 differential mode conforming to EC 61000-4-5 Surge immunity test 2 kV level 4 differential mode conforming to EC 61000-4-5 Conducted and radiated emissions class B group 1 conforming to EC 61000-4-5 Surge immunity test 4 kV level 4 differential mode conforming to EC 61000-4-5 Conducted and radiated emissions class B group 1 conforming to EC 61000-4-5 Surge immunity test 4 kV level 4 differential mode conforming to EC 61000-4-5 Conducted and radiated emissions class B group	immunity to microbreaks	<= 10 ms
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3 conforming to UL 508	IP degree of protection	IP40 on housing conforming to IEC 60529
	pollution degree	
electric test voltage 2.5 KV for 1 min AC 50 Hz conforming to IEC 60255-27	dielectric test voltage	2.5 kV for 1 min AC 50 Hz conforming to IEC 60255-27



Offer Sustainability

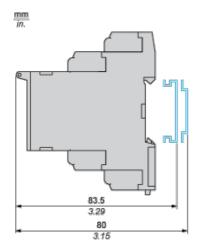
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0701 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Dimensions



Mounting and Clearance

Rail Mounting



3-Phase Control Relay

Wiring Diagram

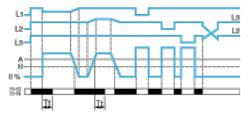


L1,L2,L3 : Supply to be monitored 11-14,12 : 1st C/O contact of output relay 21-24,22 : 2nd C/O contact of output relay



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.

