RM17TE00

Zelio, 3 phase supply control relay, range 208 to 480 VAC, sequence, phase failure, phase imbalance, voltage





Main

Range of Product	Harmony Control Relays
Product or Component Type	3-phase control relay
Relay Type	Multifunction control relay
Product Specific Application	For 3-phase supply
Relay name	RM17TE
Relay monitored parameters	Undervoltage and overvoltage in window mode Asymmetry Phase sequence Phase failure detection
Time delay	Adjustable 0.110 s, +/- 10 % of the full scale value
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

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Reset time	1500 ms time delay
Maximum switching voltage	250 V AC
	250 V DC
Minimum switching current	10 mA 5 V DC
Maximum switching current	5 A AC
	5 A DC
Supply voltage limits	183528 V AC
Control circuit voltage limits	- 12 % + 10 % Un
Power consumption in VA	022 VA 400 V AC 50 Hz
Control circuit frequency	5060 Hz +/- 10 %
Output contacts	1 C/O
Nominal output current	5 A
Measurement voltage limits	183528 V AC
Hysteresis	2 %
Delay at power up	650 ms
Maximum measuring cycle	150 ms measurement cycle as true rms value
Threshold adjustment voltage	-217 % in the range 220 V AC
	+2+17 % in the range 480 V AC
	-212 % in the range 208 V AC 220 % of Un selected
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Voltage range	208480 V phase to phase
Adjustment of asymmetry threshold	515 % of Un selected
Repeat accuracy	0.5 % input and measurement circuit
	3 % 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

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Overvoltage category	III IEC 60664-1
Insulation resistance	> 500 MOhm 500 V DC IEC 60255-5 > 500 MOhm 500 V DC IEC 60664-1
[Ui] rated insulation voltage	400 V 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	5.318.85 lbf.in (0.61 N.m) IEC 60947-1
Housing material	Self-extinguishing plastic
Local signalling	For power ON LED (green) For relay ON LED (yellow)
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 IEC 60947-5-1 AC-13 IEC 60947-5-1 AC-14 IEC 60947-5-1 AC-15 IEC 60947-5-1 DC-12 IEC 60947-5-1 DC-13 IEC 60947-5-1
Safety reliability data	MTTFd = 502.2 years B10d = 470000
Width	0.69 in (17.5 mm)
Net Weight	0.29 lb(US) (0.13 kg)

Environment

Electromagnetic compatibility	Emission standard for industrial environments EN/IEC 61000-6-4
	Emission standard for residential, commercial and light-industrial environments
	EN/IEC 61000-6-3
	Immunity for industrial environments EN/IEC 61000-6-2
Standards	EN/IEC 60255-1
Product Certifications	GOST
	C-tick
	CSA
	UL
	GL
Directives	89/336/EEC - electromagnetic compatibility
	73/23/EEC - low voltage directive
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)
Ambient air temperature for operation	-4122 °F (-2050 °C)
Relative humidity	95 % 131 °F (55 °C) IEC 60068-2-30
Vibration resistance	0.35 mm 557.6 Hz)IEC 60068-2-6
	1 gn 57.6150 Hz)IEC 60255-21-1
Shock resistance	15 gn 11 ms IEC 60255-21-1
IP degree of protection	IP20 IEC 60529 terminals)
	IP30 IEC 60529 casing)
Pollution degree	3 IEC 60664-1
Dielectric test voltage	2 KV AC 50 Hz, 1 min IEC 60255-5
	2 kV AC 50 Hz, 1 min IEC 60664-1
Non-dissipating shock wave	4 KV IEC 60255-5
	4 KV IEC 60664-1
	4 kV IEC 61000-4-5

Ordering and shipping details

Category	22380 - RELAYS-MEASUREMENT (RM17-RM35)
Discount Schedule	CP2
GTIN	3389119405058
Nbr. of units in pkg.	1
Package weight(Lbs)	3.14 oz (89 g)
Returnability	Yes
Country of origin	ID

Packing Units

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Unit Type of Package 1	PCE
Package 1 Height	1.06 in (2.7 cm)
Package 1 width	3.03 in (7.7 cm)
Package 1 Length	3.78 in (9.6 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	48
Package 2 Weight	10.76 lb(US) (4.882 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

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

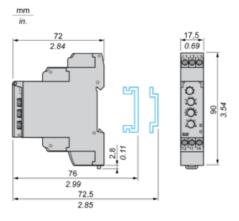
Contractual warranty

Warranty	18 months	

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Multifunction 3-Phase Supply Control Relays

Dimensions and Mounting

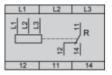


Product data sheet Connections and Schema

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Multifunction 3-Phase Supply Control Relays

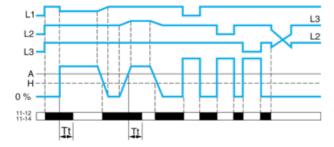
Wiring Diagram



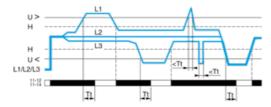
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Function Diagrams

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



Control of Overvoltage and Undervoltage in Window Mode



Legend

A Asymmetry thershold (adjustble from 5...15% of the nominal supply voltage)

Tt Time delay after crossing of threshold (adjustable on front panel)

H Hysteresis

U> Overvoltage threshold

U< Undervoltage threshold

L1, L2, L3 Phases of the supply voltage monitored

11-12, 11-14 Output relay connections (refer to Connections and Schema)

Relay status: black color = energized.