Product datasheet

Specifications





Modular multifunction 3-phase supply control relay, 5 A, 1 CO, 208...480 V AC

Local distributor code: 389834777

RM17TE00

EAN Code: 3389119405058

Main

Range Of Product	Harmony Control Relays
Relay Type	Multifunction control relay
Product Or Component Type	3-phase 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 AC
Contacts Type And Composition	1 C/O
[Uc] Control Circuit Voltage	208480 V

Complementary

Reset Time	1500 ms time delay
Maximum Switching Voltage	250 V AC 250 V DC
Minimum Switching Current	10 mA at 5 V DC
Maximum Switching Current	5 A AC 5 A DC
[Un] Rated Nominal Voltage	, self-powered
Supply Voltage Limits	183528 V AC
Control Circuit Voltage Limits	- 12 % + 10 % Un
Power Consumption In Va	022 VA at 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 Magguring Cyclo	150 ma maasurament suda ee trus reesuralus

Maximum Measuring Cycle

150 ms measurement cycle as true rms value

Screw terminals, $2 \times 0.52 \times 2.5 \text{ mm}^2$ (AWG 20AWG 14) solid without cable end Screw terminals, $1 \times 0.21 \times 2.5 \text{ mm}^2$ (AWG 24AWG 12) flexible with cable end		
+2+10 % in the range 208 V AC -2+12 % in the range 208 V AC Voltage Range 208480 V phase to phase Adjustment Of Asymmetry 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	Threshold Adjustment Voltage	
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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		
Threshold 0.5 % for input and measurement circuit Repeat Accuracy 0.5 % for input and measurement circuit 3 % for time delay Measurement Error < 0.05 %/°C with temparature variation	Voltage Range	208480 V phase to phase
3 % for time delay Measurement Error < 0.05 %/°C with temparature variation		515 % of Un selected
Measurement Error < 0.05 %/°C with temperature variation	Repeat Accuracy	0.5 % for input and measurement circuit
< 1 % over the whole range with voltage variation		3 % for time delay
< 1 % over the whole range with voltage variation	Measurement Error	< 0.05 %/°C with temperature variation
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 [U]] 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 12) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.5 2 x 1.5 mm² (AWG 20AWG 12) flexible with cable end Screw terminals, 2 x 0.5 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.5 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.5 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.5 2 x 1.5 mm² (AWG 20AWG 16) flexible with cable end Screw termina	Phase Failure Sensitivity	0.7 Un
Overvoltage Category III conforming to IEC 60664-1 Insulation Resistance > 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 12) fielyible with cable end Screw terminals, 1 x 0.2 x 2.5 mm² (AWG 20AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) fielyible	Response Time	< 200 ms (in the event of a fault)
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[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 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 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 Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with a transpoud to table end to ta to the table end to the table end to the ta	Insulation Resistance	> 500 MOhm at 500 V DC conforming to IEC 60255-5
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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 en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 m² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 m² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 m² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 m² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 m² (AWG 24AWG 12) flexible with cable en Screw terminals, 1 x 0.5 mint flexible with 0.13 kg	Supply Frequency	50/60 Hz +/- 10 %
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Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 12) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en 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 IEC 60715 Electrical Durability 100000 cycles Mechanical Durability 30000000 cycles Operating Rate <= 360 operations/hour full load	Connections - Terminals	Screw terminals, 1 x 0.51 x 4 mm ² (AWG 20AWG 11) solid without cable end
Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en 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 IEC 60715 Electrical Durability 100000 cycles Mechanical Durability 30000000 cycles Operating Rate <= 360 operations/hour full load		Screw terminals, 2 x 0.52 x 2.5 mm ² (AWG 20AWG 14) solid without 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 IEC 60715 Electrical Durability 100000 cycles Mechanical Durability 30000000 cycles Operating Rate <= 360 operations/hour full load		Screw terminals, 1 x 0.21 x 2.5 mm ² (AWG 24AWG 12) flexible with cable end
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 IEC 60715 Electrical Durability 100000 cycles Mechanical Durability 30000000 cycles Operating Rate <= 360 operations/hour full load		Screw terminals, 2 x 0.22 x 1.5 mm ² (AWG 24AWG 16) flexible with cable end
Local Signalling LED (green) for power ON LED (yellow) for relay ON Mounting Support 35 mm symmetrical DIN rail conforming to IEC 60715 Electrical Durability 100000 cycles Mechanical Durability 30000000 cycles Operating Rate <= 360 operations/hour full load	Tightening Torque	0.61 N.m conforming to IEC 60947-1
LED (yellow) for relay ON Mounting Support 35 mm symmetrical DIN rail conforming to IEC 60715 Electrical Durability 100000 cycles Mechanical Durability 30000000 cycles Operating Rate <= 360 operations/hour full load	Housing Material	Self-extinguishing plastic
LED (yellow) for relay ON Mounting Support 35 mm symmetrical DIN rail conforming to IEC 60715 Electrical Durability 100000 cycles Mechanical Durability 30000000 cycles Operating Rate <= 360 operations/hour full load	Local Signalling	LED (green) for power ON
Electrical Durability 100000 cycles Mechanical Durability 30000000 cycles Operating Rate <= 360 operations/hour full load		
Mechanical Durability 3000000 cycles Operating Rate <= 360 operations/hour full load	Mounting Support	35 mm symmetrical DIN rail conforming to IEC 60715
Mechanical Durability 3000000 cycles Operating Rate <= 360 operations/hour full load	Electrical Devectility	
Operating Rate <= 360 operations/hour full load		100000 cycles
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 Net Weight 0.13 kg	Mechanical Durability	3000000 cycles
AC-13 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 Net Weight 0.13 kg	Operating Rate	<= 360 operations/hour full load
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 Net Weight 0.13 kg	Utilisation Category	AC-12 conforming to IEC 60947-5-1
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DC-13 conforming to IEC 60947-5-1 Safety Reliability Data MTTFd = 502.2 years B10d = 470000 Width 17.5 mm Net Weight 0.13 kg		
Safety Reliability Data MTTFd = 502.2 years B10d = 470000 Width 17.5 mm Net Weight 0.13 kg		•
B10d = 470000 Width 17.5 mm Net Weight 0.13 kg		
Net Weight 0.13 kg	Safety Reliability Data	•
	Width	17.5 mm
	Net Weight	0.13 kg
without test button		-
		without lest dullon

Environment

Electromagnetic Compatibility	Emission standard for industrial environments conforming to IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to IEC 61000-6-3 Immunity for industrial environments conforming to IEC 61000-6-2
Standards	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	-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

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.7 cm
Package 1 Width	7.7 cm
Package 1 Length	9.6 cm
Package 1 Weight	92.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	48
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.936 kg

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information
 Yes

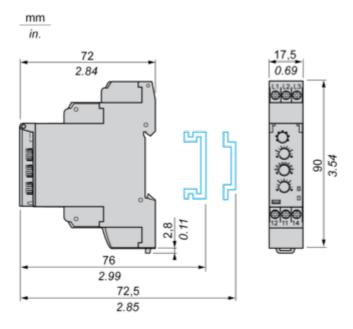
Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Dimensions Drawings

Multifunction 3-Phase Supply Control Relays

Dimensions and Mounting

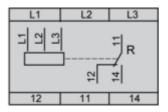


Product datasheet

Connections and Schema

Multifunction 3-Phase Supply Control Relays

Wiring Diagram

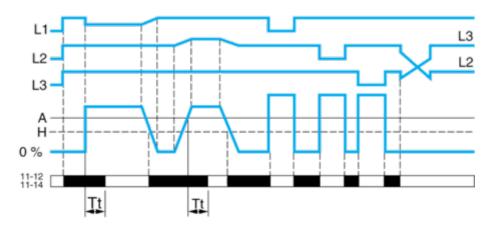


Product datasheet

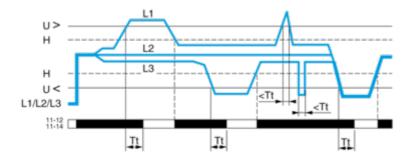
Technical Description

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)

 ${\bf H}$ 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.