Product datasheet

Specification





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

RM17TU00

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	RM17TU	
Relay Monitored Parameters	Undervoltage detection Phase sequence Phase failure detection	
Time Delay	Adjustable 0.110 s, +/- 10 % of the full scale value Tt- time delay upon fault	
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 Measuring Cycle	150 ms measurement cycle as true rms value

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

-	
Threshold Adjustment Voltage	220 % of Un selected -212 % in the range 208 V AC -217 % in the range 220 V AC
Voltage Range	208480 V phase to phase
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 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	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
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
Control Type	Without test button
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	GL GOST UL C-Tick CSA

Directives	73/23/EEC - low voltage directive
	89/336/EEC - electromagnetic compatibility
	09/300/EEO - electromagnetic compatibility
Ambient Air Temperature For	-4070 °C
Storage	1010
Ambient Air Temperature For	-2050 °C
Operation	-2000 0
Relative Humidity	95 % at 55 °C conforming to IEC 60068-2-30
	35 // at 55 C comorning to 120 00000 2 50
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
	1 gir (1- 37.5 130 112) comorning to 120 30233 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
	2 kV, 1 mm / 10 00 112 00 monthing to 120 0000 1
Non-Dissipating Shock Wave	4 kV conforming to IEC 60255-5
	4 kV conforming to IEC 60664-1
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	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	2.8 cm
Package 1 Width	8 cm
Package 1 Length	9.6 cm
Package 1 Weight	94 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	48
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	5.003 kg

Contractual warranty

Warranty 18 months

Sustainability Green 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



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

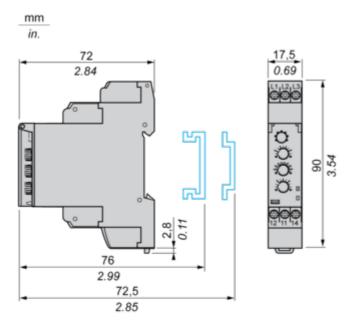
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

RM17TU00

Dimensions Drawings

Multifunction 3-Phase Supply Control Relays

Dimensions and Mounting



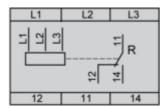
Product datasheet

RM17TU00

Connections and Schema

Multifunction 3-Phase Supply Control Relays

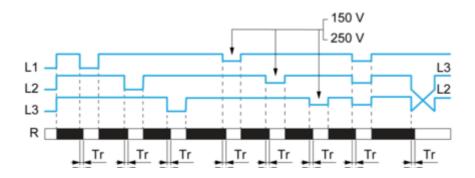
Wiring Diagram



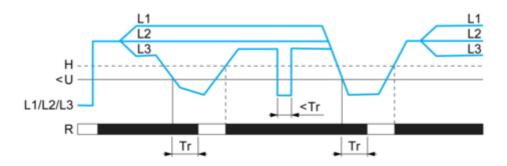
Technical Description

Function Diagrams

Phase Sequence Control and Phase failure Detection



Undervoltage Control



Legend

Tr : Response time after cross the threshold

U< : Undervoltage threshold

L1, L2, L3: Phases of the supply voltage monitored

R: Relay output 11-12/11-14, 21-22/21-24

 ${\bf H}: {\sf Hysteresis}$

Relay status: black color = energized.