

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

RM17TE00

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Harmony Control Relays	
Relay Type	Multifunction control relay	
Product or Component Type	3-phase control relay	
Relay name	RM17TE	
Relay monitored parameters	Undervoltage and overvoltage in window mode Asymmetry Phase sequence Phase failure detection	
Measurement range	208480 V AC	
time delay	Adjustable 0.110 s, +/- 10 % of the full scale value Tt- time delay upon fault	
Output contacts	1 C/O	
Nominal output current	5 A	
Contacts type and composition	1 C/O	
[Uc] control circuit voltage	208480 V	
Product Specific Application	For 3-phase supply	

Complementary

[Un] rated nominal voltage	, self-powered
Supply voltage limits	183528 V AC
Reset time	1500 ms time delay
Maximum switching voltage	250 V AC 250 V DC
Switching capacity in VA	1250 VA
Minimum switching current	10 mA 5 V DC
Maximum switching current	5 A AC 5 A DC
Control circuit voltage limits	- 12 % + 10 % Un
Power consumption in VA	022 VA 400 V AC 50 Hz
Control circuit frequency	5060 Hz +/- 10 %
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	
	-217 % in the range 220 V AC	
	+2+10 % in the range 480 V AC	
	-212 % in the range 208 V AC	
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)	
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	5.38.9 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 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	0.7 in (17.5 mm)	
Net Weight	0.29 lb(US) (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	GOST	
	C-tick	
	CSA	
	UL GL	

GL

Marking	CE	
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 (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 11 ms IEC 60255-21-1	
IP degree of protection	IP20 IEC 60529 terminals) IP30 IEC 60529 casing)	
Pollution degree	3 IEC 60664-1	
Overvoltage category	III conforming to 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	US10CP222380
Discount Schedule	0CP2
GTIN	3389119405058
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
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)
Package 1 Weight	3.2 oz (92.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	48
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	10.882 lb(US) (4.936 kg)

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	98
Environmental Disclosure	Product Environmental Profile

Use Better

⊗ Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Ba9cbb5b-722a-41d2-b7d0-f60d5f3f104d
REACh Regulation	REACh Declaration
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

Use Again

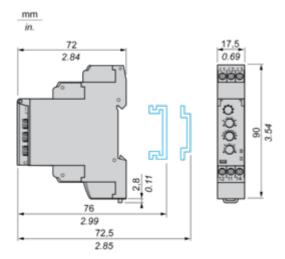
○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

RM17TE00

Dimensions Drawings

Multifunction 3-Phase Supply Control Relays

Dimensions and Mounting



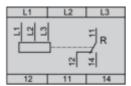
Product data sheet

RM17TE00

Connections and Schema

Multifunction 3-Phase Supply Control Relays

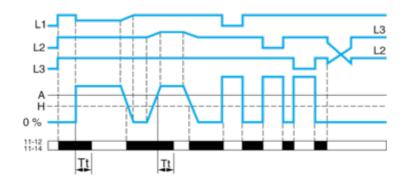
Wiring Diagram



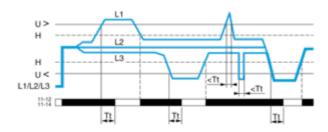
Technical Description

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)

H Hysteresis

U> Overvoltage threshold

U< Undervoltage threshold

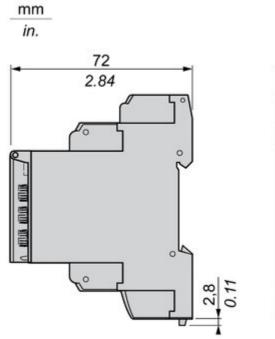
L1, L2, L3 Phases of the supply voltage monitored

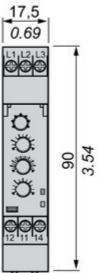
11-12, 11-14 Output relay connections (refer to Connections and Schema)

Relay status: black color = energized.

Technical Illustration

Dimensions





Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features

Technical Benefits

Harmony Control Relay

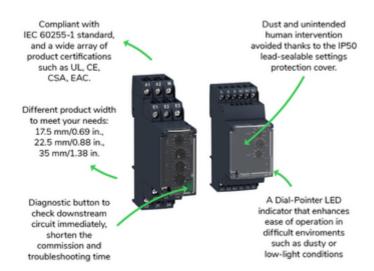


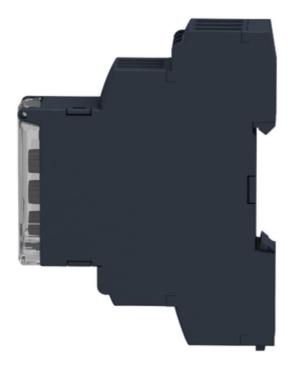
Image of product / Alternate images

Alternative













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