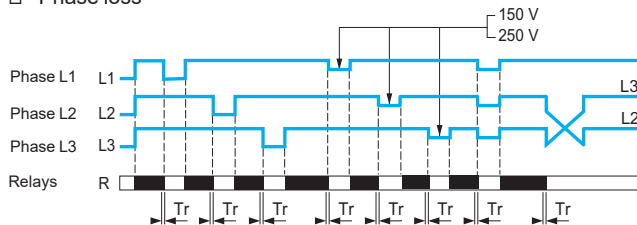


Operating principle (continued)

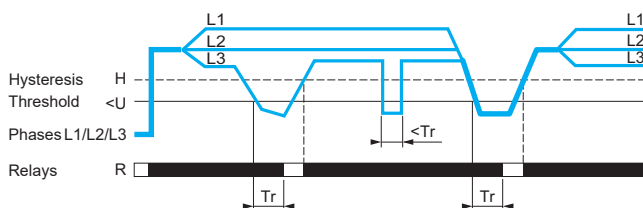
RM17TU00

Phase + Undervoltage

- ☐ Sequence of phases L1, L2, and L3
- ☐ Phase loss



Undervoltage control <U



Tt: time delay after crossing of the threshold (adjustable on front panel)

The relay monitors:

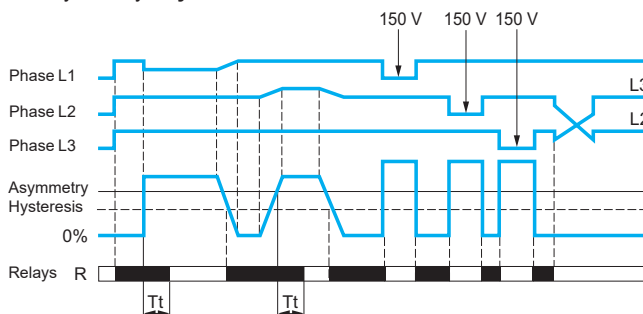
- ☐ correct sequence of the three phases
- ☐ phase loss of at least one of the three phases (U measured < 150 V)
- ☐ undervoltage adjustable from - 2... - 20% of Un (- 2... - 12% in the range 3 x 208 V ~ and - 2%... - 17% in the range 3 x 220 V ~ due to the minimum voltage 183 V ~)

- If a sequencing or phase loss fault is detected, the relay opens instantly.
- If a voltage fault is detected, the relay opens at the end of the time delay set by the user.
- On energization of the device with a detected measured fault, the relay stays open.

RM17TE00

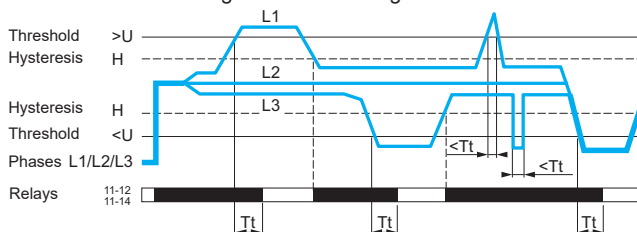
Phase + Asymmetry + Undervoltage/overvoltage

- ☐ Sequence of phases L1, L2, and L3
- ☐ Phase loss
- ☐ Asymmetry Asy



Tt: time delay after crossing of the threshold (adjustable on front panel)

Control of overvoltage and undervoltage in window mode >U / <U



Tt: time delay after crossing of the threshold (adjustable on front panel)

The relay monitors:

- ☐ correct sequence of the three phases
- ☐ phase loss of at least one of the three phases (U measured < 150 V)
- ☐ asymmetry adjustable from 5...15% of Un
- ☐ the overvoltage and undervoltage difference in window mode, adjustable from 2...20% of Un

Un	208 V	220 V	380, 400, 415, 440 V	480 V
Voltage	<	- 12... - 2	- 17... - 2	- 20... - 2
threshold (%)	>	+ 2... + 20	+ 2... + 20	+ 2... + 10

- If a sequencing or phase loss fault is detected, the relay opens instantly.
- If an asymmetry or voltage fault is detected, the relay opens at the end of the time delay set by the user.
- On energization of the device with a detected measured fault, the relay stays open.

Harmony Control Relays

Multifunction 3-phase supply control relays
RM17TT, RM17TA, RM17TU, and RM17TE



RM17TT00



RM17TA00



RM17TU00



RM17TE00

References

Function	Measurement range	Output	Reference	Weight
	V			kg/lb
■ Phase sequence ■ Phase loss with voltage regeneration	208...480 ~	1 CO 5 A	RM17TT00	0.080/ 0.176
■ Phase sequence ■ Phase loss ■ Asymmetry	208...480 ~	1 CO 5 A	RM17TA00	0.080/ 0.176
■ Phase sequence ■ Phase loss ■ Undervoltage	208...480 ~	1 CO 5 A	RM17TU00	0.080/ 0.176
■ Phase sequence ■ Phase loss ■ Asymmetry ■ Undervoltage and overvoltage in window mode	208...480 ~	1 CO 5 A	RM17TE00	0.080/ 0.176