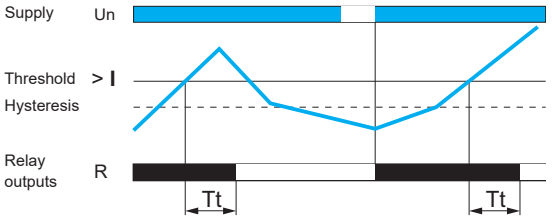
Operating principle (continued)

RM17JA12M7/ RM22JA●1MR/ RM35JA32M●

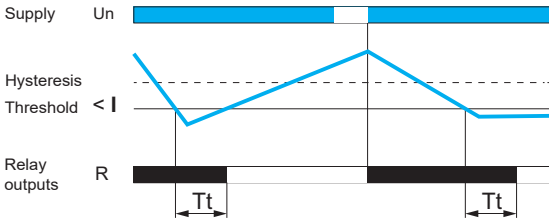
Overcurrent/Undercurrent with memory

□ Overcurrent **>I**, with memory



If “Memory” mode is selected, the relay opens when threshold crossing is detected and then stays in that position. The power has to be switched off to reset the product.

□ Undercurrent **<I**, with memory

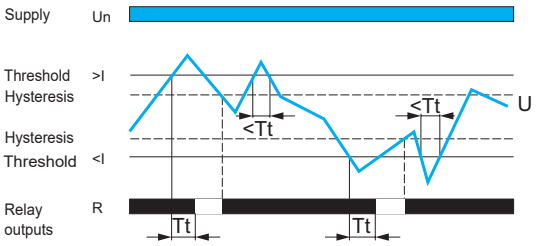


Note: *Tt: time delay after crossing of the threshold.*

RM17JA12M7/ RM22JA●1MR/ RM35JA32M●

Overcurrent and undercurrent control in window mode

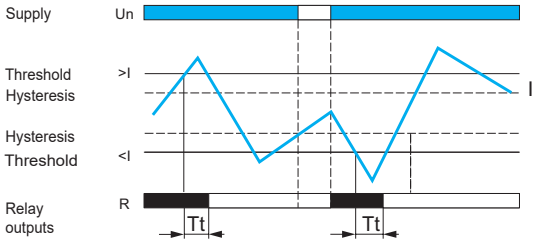
□ Overcurrent and undercurrent control in window mode **<I<**, without memory



These relays operate in window mode where they check that the controlled current stays between a minimum and a maximum threshold.

- The undercurrent or overcurrent threshold values are set by means of two graduated potentiometers clearly indicating the I to be monitored. The hysteresis is fixed at 3% of the threshold setting.
- If the controlled current exceeds the high threshold setting or falls below the low threshold setting for a time greater than that set on the front panel (0.1…30 s), the output relay opens and the R LED goes off. During the time delay, this LED flashes.
- As soon as the current falls below the high threshold setting value minus the hysteresis, or rises above the low threshold setting value plus the hysteresis, the relay instantly closes.
- On energization of the device with a detected measured fault, the relay stays open.

□ Overcurrent and undercurrent control in window mode **<I<**, with memory



If “Memory” mode is selected, the relay opens when crossing of the threshold is detected and then stays in that position. The power needs to be switched off to reset the product.

Note:*Tt: time delay after crossing of the threshold.*

Harmony Control Relays

1-phase current control relays
RM17JA12M7, RM22JA and RM35JA

PF143415

RM22JA21MR

PF143416

RM22JA31MR

PF143417

RM35JA32MR

PF143418

RM35JA32MT

RM17JA12M7

References

Function	Rated supply voltage	Measurement range	Time delay	Output	Reference	Weight
	V					kg/*lb*
■ Overcurrent (without memory)	24…240 ≂	4 mA…1 A ≂	No	2 CO 8 A	RM22JA21MR	0.110/ *0.242*
■ Overcurrent (with/ without memory) ■ Undercurrent (with/without memory) ■ Overcurrent and undercurrent in window mode (with/without memory)	24…240 ≂	4 mA…1 A ≂	Off delay (0.1...30 s)	2 CO 8 A	RM22JA31MR	0.110/ *0.242*
	24…240 ≂	150 mA…15 A ≂	Off delay (0.1...30 s)	2 CO 8 A	RM35JA32MR	0.120/ *0.264*
	380…415 ∿	150 mA…15 A ≂	Off delay (0.1...30 s)	2 CO 8 A	RM35JA32MT	0.120/ *0.264*
	220…240 ∿	500 mA…10 A ∿	Off delay (0.1..30 s)	1CO 5A	RM17JA12M7	0.07/ *0.154*