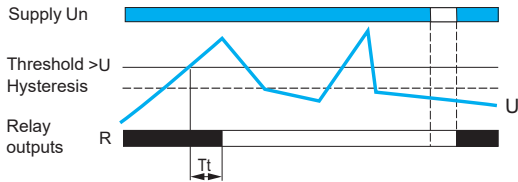


Operating principle (continued)

RM22 UA2•MR/UA3•MR/UA33MT (continued)

Overvoltage/undervoltage with memory

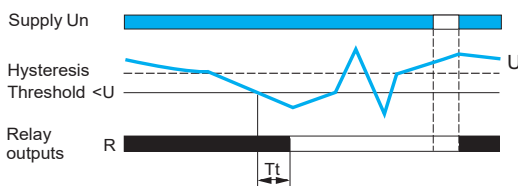
□ Overvoltage control $> U$, with memory



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

Note: T_t : time delay after crossing of the threshold.

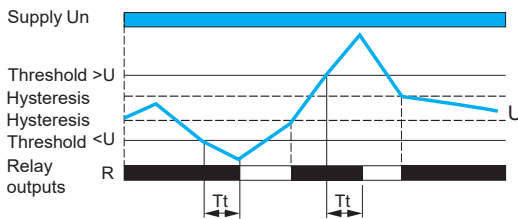
□ Undervoltage control $< U$, with memory



RM22 UA3•MR/UA33MT/UB34

Overvoltage + undervoltage control relay in window mode

■ Overvoltage and undervoltage control in window mode $< U <$



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

- The undervoltage or overvoltage threshold values are set by means of two graduated potentiometers clearly indicating the U_n to be monitored. The hysteresis is fixed at 5% of the threshold setting.
- If the controlled voltage 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 voltage 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.

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

Note: T_t : time delay after crossing of the threshold.

Harmony Control Relays

1-phase voltage control relays
RM22UA and RM22UB



RM22UA23MR



RM22UA33MR



RM22UA33MT



RM22UB34

References

Function	Rated supply voltage	Measurement range	Time delay	Output	Reference	Weight
	V	V				kg/lb
■ Overvoltage (without memory)	24...240 ~	0.05...5 ~	No	2 CO 8 A	RM22UA21MR	0.110/ 0.242
	24...240 ~	1...100 ~	No	2 CO 8 A	RM22UA22MR	0.110/ 0.242
	24...240 ~	15...500 ~	No	2 CO 8 A	RM22UA23MR	0.110/ 0.242
■ Overvoltage or undervoltage (with/without memory)	24...240 ~	0.05...5 ~	Off delay (0.1...30 s)	2 CO 8 A	RM22UA31MR	0.110/ 0.242
■ Overvoltage and undervoltage in window mode (with/without memory)	24...240 ~	1...100 ~	Off delay (0.1...30 s)	2 CO 8 A	RM22UA32MR	0.110/ 0.242
	24...240 ~	15...500 ~	Off delay (0.1...30 s)	2 CO 8 A	RM22UA33MR	0.110/ 0.242
	380...415 ~	15...500 ~	Off delay (0.1...30 s)	2 CO 8 A	RM22UA33MT	0.110/ 0.242
■ Overvoltage and undervoltage in window mode (without memory)	110...240 ~	80...300 ~	On/Off delay (0.1...30 s)	2 CO 8 A	RM22UB34	0.090/ 0.198