



# Voltage monitoring relays

# U1D U1M

## Protections

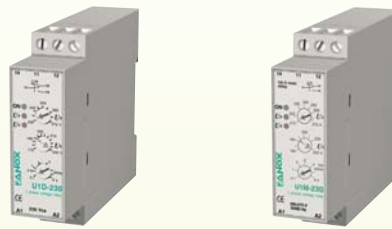
-  **Phase imbalance or phase loss**
-  **Phase sequence**
- U>** **Overvoltage**
- U<** **Undervoltage**

## Single-phase voltage relay

- Minimum and maximum thresholds adjustable (two potentiometers).
- **U1D**: Tripping time delay adjustable. Instantaneous reset. Protects equipment such as digital instruments or electrical equipment from voltage variations in the network.
- **U1M**: Tripping time delay adjustable. Fixed reset delay (5 minutes). Suitable for single phase air conditioning.

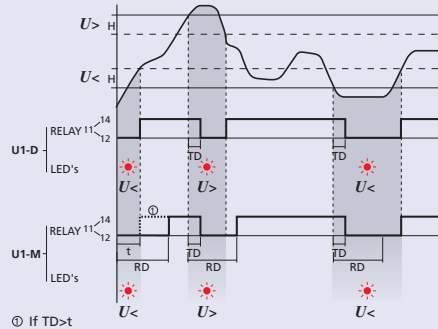
**U1 D**

**U1 M**



Protections Models	U> U<			U> U<		
	U1D-24D	U1D-115	U1D-230	U1M-24D	U1M-115	U1M-230
Frequency	DC	50/60 Hz	50/60 Hz	DC	50/60 Hz	50/60 Hz
Maximum threshold V / Hz	23-28	105-135	215-275	23-28	105-135	215-275
Minimum threshold V / Hz	19-25	90-120	160-230	19-25	90-120	160-230
Code no.	12028	12026	12027	12080	12081	12082

Characteristics	
Type of supply to be monitored	Single phase
Auxiliary supply $\pm 10\%$	Self-powered
Accuracy	U> +4% -1%; U< +1% -4%
Trip time delay (TD)	0,1 to 6s ( $\pm 20\%$ ) for U> U<
Reset time delay (RD)	U1D: No / U1M: fix 5 min.
Reset mode	Automatic
Hysteresis	4% of the nominal voltage
Signalling LED's	3 LED's: ON + U> + U<
Output contacts	1 relay with 1 change-over NO - NC
Switching power	I <sub>th</sub> : 5A; AC 15 - 250V - 2A; DC 13 - 30V - 2A
Terminals: Max. section / Screw torque	2,5 mm <sup>2</sup> , No. 22 - 12AWG / 20Ncm, 1,8 LB - IN
Power consumption	3 VA (115 Vac) - 7 VA (230 Vac) - 0,7W (24 Vdc)
Protection degree / weight	IP20 / 0,11 kg
Storage / operation temperature	-30°C +70 °C / -15°C +60°C



## Dimensions

