

Voltage & frequency monitoring relays

U1D U1M

Protections

- ⚡ Phase imbalance or phase loss
- (R) 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



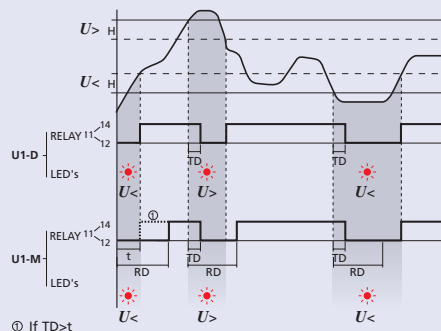
U1 M



Protections		$U>$	$U<$		$U>$	$U<$	
Models		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_{th} : 5A; AC15 - 250V - 2A; DC13 - 30V - 2A
Terminals: Max. section / Screw torque	2,5 mm ² , 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

