



GENERAL CHARACTERISTIC

Voltage relays dedicated to supervise the RMS value of sinewaved voltage of frequency 50 Hz or DC voltage. Relays construction ensures their high accuracy, stability and reliability.

Protection set

27/59 Under-/overvoltage, time-delayed

27/59 Under-/overvoltage, instanteneous

Main features

- two-inputs measuring circuit based on voltage divider for sine voltage (UAC) or direct voltage (UDC)
- Undervoltage or overvoltage operation mode (selectable)
- Optical visualisation (LED diodes) of pick-up, operation of relay or auxilliary voltage presence
- Relay outputs of pick-up signalling (K1) or operation signalling (K2) RET-325
- 2 relay outputs of operation signalling (K1, K2) RET-350
- 35 mm rail mounting

Principle of operation

RET-325

The relay supervises the value of measured voltage. If operation mode is set to "overvoltage", the relay picks-up when measured voltage exceeds the treshold value. After preset time delay, trip (operation) signal is activated. If operation mode is set to "undervoltage", the relay picks-up when measured voltage drops below the treshold value. After preset time delay, trip (operation) signal is activated.

RET-350

The relay supervises the value of measured voltage. If operation mode is set to "overvoltage", the relay picks-up and instantenously generates trip (operation) signal when measured voltage exceeds the treshold value. If operation mode is set to "undervoltage", the relay picks-up and instantenously generates trip (operation) signal when measured voltage drops below the treshold value.

TECHNICAL DATA

Rated measuring voltage Un	48V, 100V, 110V 220/230V,
	400V AC/DC
Rated frequency	50 Hz
Auxilliary voltage	110 - 230 V AC/DC (50 Hz)
Setting range of voltage threshold values if Un=	=
- 48V	199V
- 100V	2198V
- 110V	2297V
- 220/230V	4396V
- 400V	5495V
Setting range of timer (RET-325)	09,9s
Accuracy of voltage inputs	1,5%
Relay response time:	≤100ms
Burden in measuring inputs	≤0,5 VA/input
Burden in supply module	≤4W
Continuous measured voltage	1,2 Un
Thermal withstand of voltage measuring inputs	s (10s) 1,5 Un
Relay outputs data:	
Continuous contact carry	5A
Max. breaking capacity by 250V DC	
- resistive load	0,3A
- inductive load of L/R ≤40ms	0,12A
Max. breaking capacity by 250V, 50Hz	
- inductive load, cosφ=0,4	3A
Ambient temperature	-20 – 40 °C
Humidity (with no condensation)	≤80%
Ingress Protection	IP40
Weight	~0.3kg
Dimensions (height x width x depth)	75mm x 45mm x 130mm
Electromagnetic compatibility acc. to	EN 50263
Insulation according to	EN 60255-5