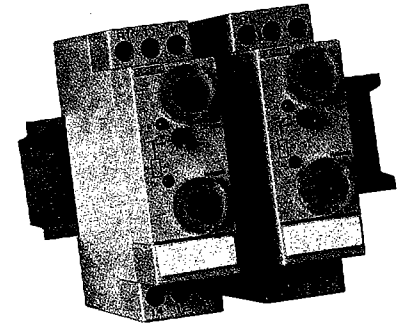


# EU SERIES

## VOLTAGE CONTROL RELAY

UL-E87133 cUL-E87133



- **2 Product Types - .2 to 60 V and 10 to 600 V**
- **Selectable Under or Over Voltage Modes**
- **Space Saving 22.5mm Wide Enclosure**
- **DIN-Rail / Surface Mount**

### TWO PRODUCT TYPES: EUL (.2 TO 60V) AND EUH (10 TO 600V) PROVIDE SELECTABLE OVER OR UNDER VOLTAGE CONTROL.

#### Control of AC / DC voltage without memory

When the value of the controlled voltage, AC or DC, reaches the threshold  $U_e$  displayed on the front face, the output relay changes state at the end of a time delay  $T$  which can be set on the front face at between 0.1 and 3 s.

Once the voltage drops below 5 to 50% of the threshold (hysteresis), the output relay changes state again instantly. Changing the hysteresis on the front face does not therefore modify the value of the preset threshold.

#### Control of AC / DC voltage with memory

When the value of the controlled voltage, AC or DC, reaches the threshold  $U_e$  displayed on the front face, the output relay changes state at the end of a time delay  $T$  which can be set on the front face at between 0.1 and 3 s, and stays locked in this position.

### SPECIFICATIONS

Input power	24 VDC, 24, 120, 230 VAC
	±15%, 50/60 Hz
Max. power consumption	3 VA
Frequency of measured signal	40 to 500 Hz
Threshold value	1 to 100% of measurement range
Hysteresis	5 to 50% of displayed threshold
Display Accuracy	±10% of full scale
Delay on threshold overrun	.1 to 3 sec.
Output	SPDT relay
Contact material	AgCdO
Maximum loading	8 Amp resistive
Maximum switching voltage	250 VAC
Operating temperature	-4°F to 140°F, (-20°C to 60°C)
Storage temperature	-22°F to 158°F, (-30°C to 70°C)
Weight	4.9 oz. (140g)

### MEASUREMENT RANGE

TYPES	EUL			EUH		
	E1-M	E2-M	E3-M	E1-M	E2-M	E3-M
Input						
Sensitivity	0.2 to 2 V	0.5 to 10 V	3 to 60 V	10 to 100 V	30 to 300 V	60 to 600 V
Input resistance	2 kΩ	10 kΩ	60 kΩ	100 kΩ	300 kΩ	600 kΩ

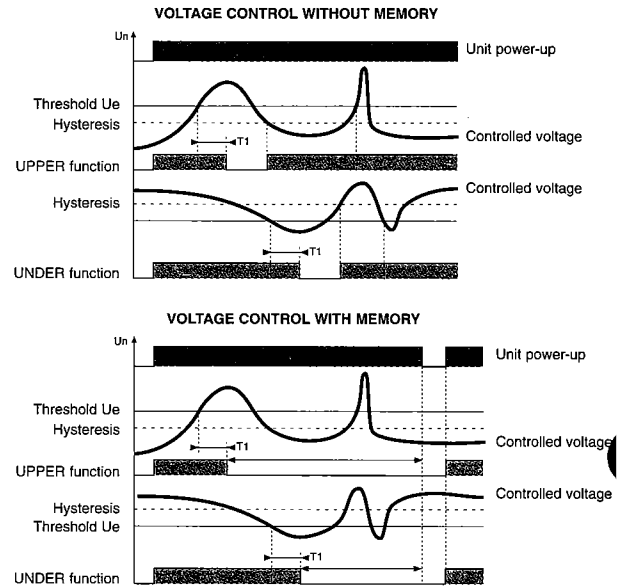
**\*Important:** For 24 VDC Input power models, the supply voltage and the measured voltage must be from separate sources. The "negative" poles of the auxiliary power and the measurement circuit are connected inside the unit.

### ORDERING INFORMATION:

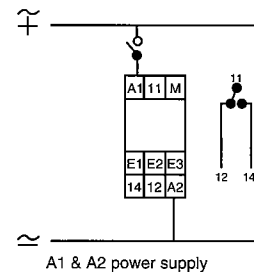
Part Number	Type	Supply Voltage	Measurement Range
84 872 001	EUL	24 VDC*	.2 to 60 V
84 872 002	EUL	24 VAC	.2 to 60 V
84 872 004	EUL	120 VAC	.2 to 60 V
84 872 005	EUL	230 VAC	.2 to 60 V
84 872 006	EUH	24 VDC*	10 to 600 V
84 872 007	EUH	24 VAC	10 to 600 V
84 872 009	EUH	120 VAC	10 to 600 V
84 872 010	EUH	230 VAC	10 to 600 V

\*See "Important" in Specifications

### MODE OF OPERATION



### WIRING



### DIMENSIONS inches (mm)

