

### DIN Rail Mount 22.5 mm EUL Part number 84872020



- Voltage monitoring
   2 relays to cover 6 ranges of measurement : 0.2V to 600V
   Automatic recognition AC/DC
- Frequency up to 500 Hz

num	

Туре	Measurement range	Supply voltage
84 872 020 EUL	0,2 →60 V	24 V DC

#### **Specifications**

#### Supply

Voltage supply tolerance	-15 % / +15 % limited to -15 % / +10 % if products are mounted without space between them
Operating range	0,85 →1,15 Un
Immunity from micro power cuts	10 ms

#### Inputs and measuring circuit

inputs and measuring circuit	
Frequency of measured signal	40 →500 Hz
Threshold adjustment	10 →100 % of the measurement range
Hysteresis	5 →50 % of displayed threshold
Display precision	±10 % of full scale
Repetition accuracy with constant parameters	± 0,1 %
Measuring error with voltage drift	< 0.5 %
Measuring error with temperature drift	± 0,05 % / °C

#### Timing

Delay on thresold crossing Tt	0,1 →3 s ±10 %

#### Output

Type of output	1 changeover AgNi, 8 AAC max
Type of contacts	No cadmium
Maximum breaking voltage	250 VAC/DC
Max. breaking current	8 AAC max.
Min. breaking current	100 mA AC/DC
Electrical life (number of operations)	AC 12 : $2000 \text{ VA} - 10^5$ AC 15 : $\cos \varphi = 0.3 - 6000$ DC 13 : $L/R = 300 \text{ ms} - 6000$
Breaking capacity (resistive)	2000 VAAC
Maximum rate	360 operations/hour at full load
Operating categories acc. to IEC/EN 60947-5-1	AC12, AC15, DC13
Mechanical life (operations)	5 x 10 <sup>6</sup>

### Insulation

Insulation coordination (IEC/EN 60664-1)	Overvoltage category III: degree of pollution 2
Rated impulse withstand voltage (IEC/EN 60664-1)	4 kV (1,2 / 50 μs)
Dielectric strength (IEC/EN 60664-1)	2.5 kV AC 50 Hz 1 min.
Insulation resistance (IEC/EN 60664-1)	> 100 MΩ / 500 VDC

## racteristic

General characteristics	
Display power supply	Green LED
Display relay	Yellow LED
Casing	22,5 mm
Mounting	On 35 mm symmetrical DIN rail, IEC/EN 60715
Mounting position	All positions
Material : enclosure plastic type VO to UL94 standard	
Protection (IEC/EN 60529)	Terminal block : IP20 Casing : IP50
Weight	160 g
Connecting capacity IEC/EN 60947-1	Rigid: $1 \times 4^2 - 2 \times 2.5^2 \text{ mm}^2$ 1 x 11 AWG - 2 x 14 AWG Flexible with ferrules: $1 \times 2.5^2 - 2 \times 1.5^2 \text{ mm}^2$ 1 x 14 AWG - 2 x 16 AWG
Max. tightening torques IEC/EN 60947-1	0,6 mN / 5,3 Lbf.In
Operating temperature IEC/EN 60068-2	-20 →+60

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Storage temperature IEC/EN 60068-2	-30 →+70
Humidity IEC/EN 60068-2-30	93 % RH max. without condensation
Vibrations according to IEC/EN60068-2-6	10 →55 Hz, A = 0.35 mm
Standards	
Product standard	IEC/EN 60255-1
Electromagnetic compatibility (EMC)	IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4
Certifications	UL, CSA
Marking	CE (DBT) 2006/95/EC - EMC 2004/108/EC
Conformity with environmental directives	RoHS

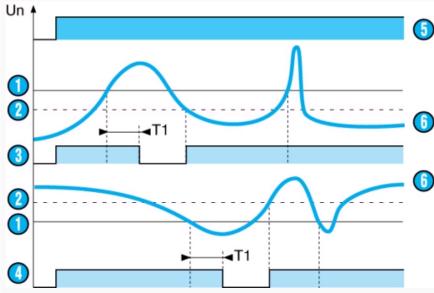
#### Supply

Supply voltage Un	24 VDC, 120 VAC, 230 VAC
Polarity with DC voltage	DC: yes
Galvanic isolation of power supply/measurement	DC: no galvanic isolation. In this case, the product power supply and measuring circuit power supply must be electrically isolated AC: galvanic isolation by transformer
Power consumption at Un	DC : 1 W AC : 3 VA

#### Inputs and measuring circuit

Measurement range	0,2 →60 V	
	E1-M: 0,2 →2 V	
	E2-M:1→10 V	
	E3-M : 6 → 60 V	
Input resistance	Ε1-Μ : 2kΩ	
mpat resistance	Ε2-Μ : 10kΩ	
	Ε3-Μ : 60ΚΩ	
D		
Permanent overload at 20 °C	E1-M: 4 V	
	E2-M: 20 V	
	E3-M: 120 V	
Peak overload < 1ms at 20 °C	E1-M: 50 V	
	E2-M: 100 V	
	E3-M: 300 V	

# Principles



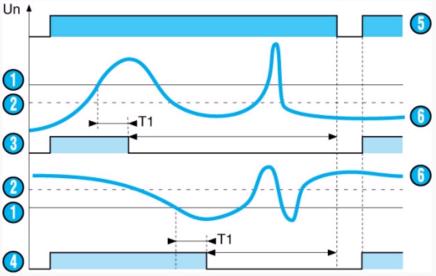
When the value of the controlled voltage, AC or DC, reaches the treshold Ue displayed on the front face, the output relay changes state at the end of a time delay T1, which can be set on the front face at between 0.1 and 3s.

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

Nº	Legend
0	Treshold Ue
<b>②</b>	Hysteresis
<b>(</b> )	UPPER function
0	UNDER function
<b>6</b>	Unit power-up
6	Controlled voltage

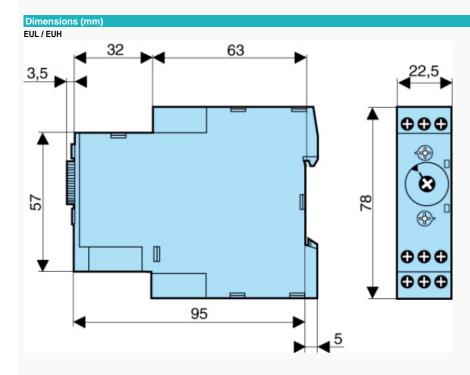
#### **Principles**





When the value of the controlled voltage, AC or DC, reaches the treshold Ue displayed on the front face, the output relay changes state at the end of a time delay T1, which can be set on the front face at between 0.1 and 3s and remains latched in this position.

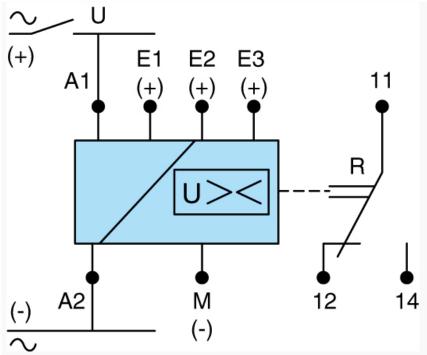
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0	*** TRADUCTION MANQUANTE ***



#### Connections

EUL

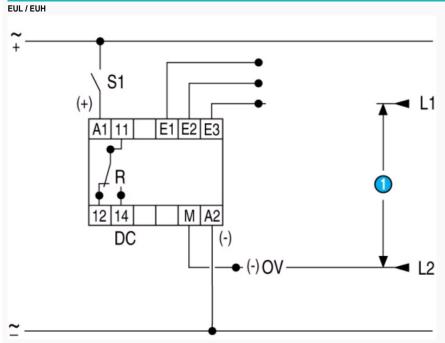
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Legend

A1 - A2 : Supply voltage

#### Connection



N	lo .	Legend
(		Supply voltage to be monitored

#### Connections





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- Customisable colours and labels
- Measuring ranges within the generic limits
   Fixed threshold in the generic measurement range
   Fixed or adjustable time delay
   Adjustable hysteresis

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