

- › HUL
- › Monitoring Relays
- › Voltage Monitoring Relays
- › DIN Rail Mount 35 mm

- › Control of AC and DC voltages
- › Automatic recognition of AC/DC
- › Measurement ranges from 0.2 V to 600 V
- › Choice between under and overvoltage
- › True RMS measurement
- › Selectable latching (memory) function



Specifications			
Functions	Measurement range	Nominal voltage (V)	Code
Under/Overvoltage	0,2 V →60 V	24 →240 V AC/DC	84872120

Power supply	
Supply voltage Un	24 V →240 V AC/DC
Voltage supply tolerance	-15% / +10%
Operating range	20,4 V →264 V AC/DC
Polarity with DC voltage	No
AC supply voltage frequency	50 / 60 Hz ±10%
Galvanic isolation of power supply/measurement	No
Power consumption at Un	3.5 VA in AC/0.6 W in DC
Immunity from micro power cuts	10 ms

Inputs and measuring circuit	
Frequency of measured signal	0 Hz, 40 →70 Hz
Max. measuring cycle time	30 ms/True RMS measurement
Threshold adjustment	10 →100% of the range
Hysteresis	Adjustable from 5 →50% of displayed threshold
Display precision	±10% of full scale
Repetition accuracy with constant parameters	± 0,5%
Measuring error with voltage drift	< 1% across the whole range
Measuring error with temperature drift	± 0,05% / °C

Time delays	
Delay on threshold crossing Tt	0,1 →3 s (0, + 10%)
Repetition accuracy with constant parameters	± 2%
Reset time	1500 ms
Delay on pick-up	< 600 ms

Outputs	
Type of output	1 double changeover relay
Type of contacts	No cadmium

Outputs	
Maximum breaking voltage	250 V AC/ DC
Max. breaking current	5 A AC/DC
Min. breaking current	10 mA / 5 VDC
Electrical life (number of operations)	1 x 10 ⁵
Breaking capacity (resistive)	1250 VA AC
Maximum rate	360 operations/hour at full load
Operating categories acc. to IEC/EN 60947-5-1	AC12, AC13, AC14, AC15, DC12, DC13, DC14
Mechanical life (operations)	30 x 10 ⁶
Insulation	
Nominal insulation voltage IEC/EN 60664-1	250 V
Insulation coordination (IEC/EN 60664-1)	Overvoltage category III : degree of pollution 3
Rated impulse withstand voltage (IEC/EN 60664-1)	4 KV (1,2 / 50 µs)
Dielectric strength (IEC/EN 60664-1)	2 KV AC 50 Hz 1 min.
Insulation resistance (IEC/EN 60664-1)	> 500 MOhm(s) / 500 V DC
General characteristics	
Display power supply	Green LED
Display relay	Yellow LED
Casing	35 mm
Mounting	On 35 mm symmetrical DIN rail, IEC/EN 60715
Mounting position	All positions
Material : enclosure plastic type VO to UL94 standard	Incandescent wire test according to IEC/EN 60695-2-11
Protection (IEC/EN 60529)	Terminal block : IP 20 Casing : IP 30
Weight	130 g
Connecting capacity IEC/EN 60947-1	Rigid : 1 x 4 ² - 2 x 2.5 ² mm ² 1 x 11 AWG - 2 x 14 AWG Flexible with ferrules : 1 x 2.5 ² - 2 x 1.5 ² mm ² 1 x 14 AWG - 2 x 16 AWG
Max. tightening torques IEC/EN 60947-1	0,6 →1 Nm / 5,3 →8,8 Lbf.In
Operating temperature IEC/EN 60068-2	-20 →+50 °C
Storage temperature IEC/EN 60068-2	-40 →+70 °C
Humidity IEC/EN 60068-2-30	2 x 24 hr cycle 95% RH max. without condensation 55 °C
Vibrations according to IEC/EN60068-2-6	10 →150 Hz, A = 0.035 mm
Shocks IEC/EN 60068-2-6	5 g
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