



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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- › **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

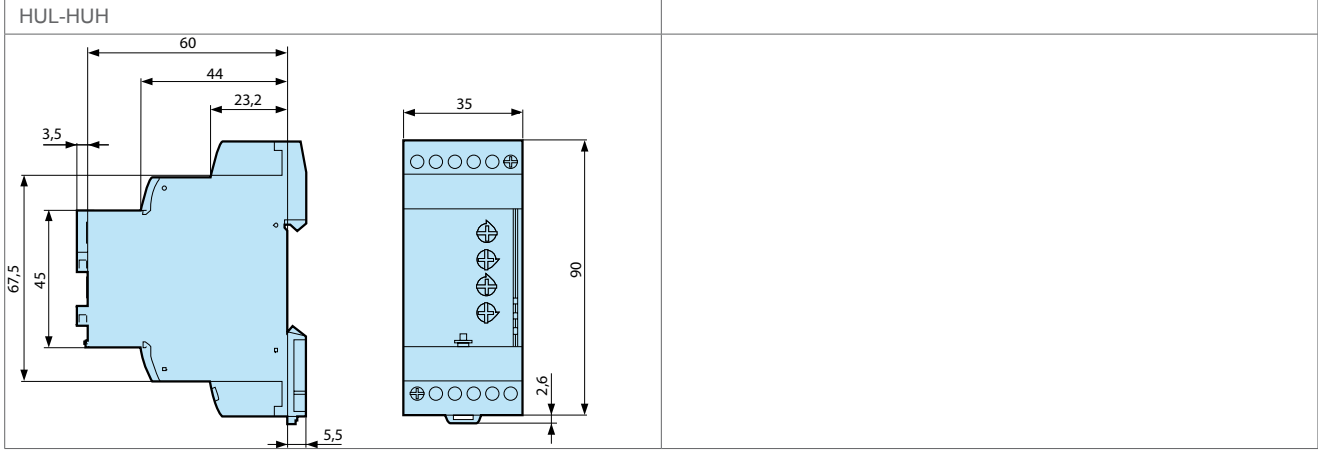
Inputs and measuring circuit	
Frequency of measured signal	0 Hz, 40 →70 Hz
Max. measuring cycle time	30 ms/True RMS measurement
Threshold adjustment	10 →100% of the range
Hysteresis	Adjustable from 5 →50% of displayed threshold
Display precision	±10% of full scale
Repetition accuracy with constant parameters	± 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 <sup>5</sup>
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 <sup>6</sup>
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 <sup>2</sup> - 2 x 2.5 <sup>2</sup> mm <sup>2</sup> 1 x 11 AWG - 2 x 14 AWG Flexible with ferrules : 1 x 2.5 <sup>2</sup> - 2 x 1.5 <sup>2</sup> mm <sup>2</sup> 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

**Dimensions**



**Curves**

**Connections**

