

# Datasheet

## Stock No. 102-6131

# Single Phase, Under and Over Voltage plus Time Delay



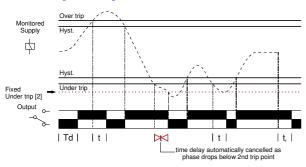
**ENGLISH** 



- \*NEW\* 17.5mm DIN rail housing
- Microprocessor based
- True R.M.S. monitoring
- Monitors own supply and detects if the supply exceeds the set Under or Over voltage trip levels
- **Single Phase operation**
- Adjustment for Under voltage trip level
- Adjustment for Over voltage trip level
- Adjustment for Time delay (from an Under or Over voltage condition)
- 1 x SPDT relay output 8A
- **Green LED indication for supply status**
- Red LED indication for relay status

## **FUNCTION DIAGRAM**

#### **Under and Over Voltage Monitoring**



## **INSTALLATION AND SETTING**

Installation work must be carried out by qualified personnel.

- BEFORE INSTALLATION, ISOLATE THE SUPPLY.
- Connect the unit as required. The Connection Diagram below shows a typical installation, whereby the supply to a load is being monitored by the Phase monitoring relay. If a fault should occur (i.e. fuse blowing), the relay will de-energise and assuming control of the external Contactor, de-energise the Contactor as well.

#### Applying power.

- Set the "Over %" 6 adjustment to maximum and the "Under %" 6 adjustment to minimum. Set the "Delay (t)" 4 to minimum
- Apply power and the green "Power supply" 1 and red "Relay" 2 LED's will illuminate, the relay will energise and contacts 15 and 18 will close. Refer to the troubleshooting table if the unit fails to operate

#### Setting the unit (with power applied).

- Set the "Over %" and the "Under %" adjustments to give the required monitoring range.
- If large supply variations are anticipated, the adjustments should be set further from the nominal
- Set the "Delay (t)" adjustment as required. (Note that the delay is only effective should the supply increase above or drop below the set trip levels. However, if during an under voltage condition the supply drops below the 2<sup>nd</sup> under voltage trip level, any set time delay is automatically cancelled and the relay de-energises).

Note: If the supply voltage increases above the maximum "Over %" trip setting by approx. 5% or more, the relay will de-energise immediately.

## Troubleshooting.

The table below shows the status of the unit during a fault condition.

Supply fault	Green LED	Red LED	Relay	
No supply	Off	Off	De-energised	
Under or Over Voltage condition (during timing)	On	Flashing	Energised for set delay (t)	
Under or Over Voltage condition (after timing)	On	Off	De-energised	
Supply below 70% of Un (fixed under trip level [2])	On	Off	De-energised	

## **TECHNICAL SPECIFICATION**

Supply/monitoring voltage

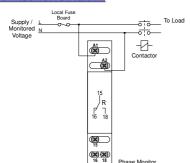
Un (A1, A2):  Frequency range:  Supply variation:  Overvoltage category:  Rated impulse withstand voltage:  Power consumption (max.):  Monitoring mode:  Under [2]:  Under [2]:  Under:  Trip levels:  Under [2]:  Under:  Under:  105 − 125% of Un  Measuring ranges:  Under [2]:  Weight:  = 28 of trip level (factory set)  Setting accuracy:  ± 0.5% at constant conditions  Semman set in the set of the							
Supply variation:   70 − 130% Un		Un (A1, A2): 230V AC					
Overvoltage category: Rated impulse withstand voltage: Power consumption (max.):  Wonitoring mode:  Under [2]:  Under [2]:  Under and Over voltage  Trip levels:  Under:  Under:  15 - 95% of Un  Over:  161V 173 - 218V 242 - 288V  Hysteresis:  Setting accuracy:  ± 3%  Repeat accuracy:  Immunity from micro power cuts:  Seponse time:  Time delay (t):  0.2 - 10 sec. (± 5%)  Note: actual delay (t) = adjustable delay + response time  Power on delay (Td):  Relay status indication:  Red LED  Ambient temp: Relay status indication:  Red LED  Ambient temp:  -20 to +60°C  Relative humidity:  +95%  Output (15, 16, 18):  Output rating:  AC1 250V 8A (2000VA)  AC15 250V 5A (no), 3A (nc)  DC1 25V 8A (2000VA)  Electrical life:  Dielectric voltage:  Rated impulse withstand voltage:  Housing:  Or noge flame retardant UL94  Weight:  75g  Mounting option:  Or 10 55mm symmetric DIN rail to BS EN 60715  or direct surface mounting via 2 x M3.5 or 4BA screws using the black clips provided on the rear of the unit.			48 – 63Hz				
Rated impulse withstand voltage: Power consumption (max.):  Monitoring mode: Under [2]: Under: 75- 95% of Un Over: 105 - 125% of Un  Measuring ranges: Under [2]: Under [2]: Under [2]: Under [2]: Under: 105 - 125% of Un  Measuring ranges: Under [2]: Under [2]: Under [2]: Under Over: 105 - 125% of Un  Measuring ranges: Under [2]: Under [2]: Under Over: 161V 173 - 218V 242 - 288V  Hysteresis: 28' 27% of trip level (factory set)  Setting accuracy: ± 3% Repeat accuracy: ± 0.5% at constant conditions Immunity from micro power cuts: Response time: 250mS Response time: 250mS Response time: 250mS Response time: 750mS Response time: Redlay (t): 0.2 - 10 sec. (± 5%) Note: actual delay (t) = adjustable delay + response time Power on delay (Td): 21 sec. (worst case = Td x 2) Power on indication: Red LED Relay status indication: Red LED Relative humidity: +95% Output (15, 16, 18): Output (15, 16, 18): SPDT relay Output rating: AC1 250V 8A (2000VA) AC15 250V 5A (no), 3A (nc) DC1 25V 8A (2000VA)  AC15 25V 8A (2000VA)			70 – 130% Un				
Power consumption (max.):   Monitoring mode: Trip levels:   Under [2]: 70% of Un (fixed) ± 2%     Under: 75 - 95% of Un     Over: 105 - 125% of Un     Under 230V: 161V							
Monitoring mode:  Trip levels:  Under [2]:  Under:  Under:  75 - 95% of Un  Over:  105 - 125% of Un  Measuring ranges:  Under [2]:  Under [2]:  Under [2]:  Under [2]:  Under Over:  105 - 125% of Un  Under [2]:  Under Over:  230V:  161V:  173 - 218V:  242 - 288V:  424 - 288V:  425 of trip level (factory set)  Setting accuracy:  ± 3%  Repeat accuracy:  ± 0.5% at constant conditions  Immunity from micro power cuts:  8			4kV (1.2/50μS) IEC 60664				
Trip levels:           Under [2]:         70% of Un (fixed) ± 2%           Under:         75 – 95% of Un           Measuring ranges:         Under [2]         Under         Over           161V         173 – 218V         242 – 288V           Hysteresis:         ≈ 2% of trip level (factory set)           Setting accuracy:         ± 3%           Repeat accuracy:         ± 0.5% at constant conditions           Immunity from micro power cuts:         < 50mS		Power consumption (max.):	8VA				
Under [2]: 70% of Un (fixed) ± 2% Under: 75 - 95% of Un  Over: 105 - 125% of Un  Measuring ranges: Under [2] Under Over  161V 173 - 218V 242 - 288V  Hysteresis: ≈ 2% of trip level (factory set)  Setting accuracy: ± 3%  Repeat accuracy: ± 0.5% at constant conditions  Immunity from micro power cuts: < 50mS  Response time: ≈ 50mS  Time delay (t): 0.2 - 10 sec. (± 5%)  Note: actual delay (t) = adjustable delay + response time  Power on delay (Td): ≈ 1 sec. (worst case = Td × 2)  Power on Indication: Green LED  Relay status indication: Red LED  Ambient temp: -20 to +60°C  Relative humidity: +95%  Output (15, 16, 18): SPDT relay  Output rating: AC1 250V 8A (2000VA)  AC15 250V 5A (no), 3A (nc)  DC1 25V 8A (2000VA)  Electrical life: ≥ 150,000 ops at rated load  Dielectric voltage: 2kV AC (rms) IEC 60947-1  Rated impulse withstand voltage: 4kV (1.2/50µS) IEC 60664  Housing: Orange flame retardant UL94  Weight: 75g  Mounting option: On to 35mm symmetric DIN rail to BS EN 60715  or direct surface mounting via 2 x M3.5 or 48A screws  using the black clips provided on the rear of the unit.		Monitoring mode:	Under and Over voltage				
Under:		•					
Over:         105 − 125% of Un           Measuring ranges:         Under [2]         Under         Over           230V:         161V         173 − 218V         242 − 288V           Hysteresis:         ≈ 2% of trip level (factory set)         242 − 288V           Setting accuracy:         ± 3%         x 50mS           Immunity from micro power cuts:         x 50mS           Response time:         ≈ 50mS           Time delay (t):         0.2 − 10 sec. (± 5%)           Note: actual delay (t) = adjustable delay + response time           Power on delay (Td):         ≈ 1 sec. (worst case = Td x 2)           Power on indication:         Red LED           Relay status indication:         Red LED           Ambient temp:         -20 to +60°C           Relative humidity:         +95%           Output (15, 16, 18):         SPDT relay           Output rating:         AC1         250V 8A (2000VA)           AC15         250V 5A (no), 3A (nc)           DC1         25V 8A (2000W)           Electrical life:         ≥ 150,000 ops at rated load           Dielectric voltage:         2kV AC (rms) IEC 60947-1           Rated impulse withstand voltage:         4kV (1.2/50µS) IEC 60664           Housing:         Orange flame reta							
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Output (15, 16, 18):  Output rating:  AC1  AC15  DC1  DC1  Electrical life:  ≥ 150,000 ops at rated load  Dielectric voltage:  Rated impulse withstand voltage:  Housing:  Orange flame retardant UL94  Weight:  75g  Mounting option:  On to 35mm symmetric DIN rail to BS EN 60715  or direct surface mounting via 2 x M3.5 or 4BA screws  using the black clips provided on the rear of the unit.		Ambient temp:	-20 to +60°C	-20 to +60°C			
Output rating:  AC1  250V 8A (2000VA)  AC15  250V 5A (no), 3A (nc)  DC1  25V 8A (2000W)  Electrical life:  ≥ 150,000 ops at rated load  Dielectric voltage:  2kV AC (rms) IEC 60947-1  Rated impulse withstand voltage:  4kV (1.2/50µS) IEC 60664  Housing:  Orange flame retardant UL94  Weight:  75g  Mounting option:  On to 35mm symmetric DIN rail to BS EN 60715  or direct surface mounting via 2 x M3.5 or 4BA screws  using the black clips provided on the rear of the unit.		Relative humidity:	+95%	+95%			
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Dielectric voltage: 2kV AC (rms) IEC 60947-1 Rated impulse withstand voltage: 4kV (1.2/50µS) IEC 60664 Housing: Orange flame retardant UL94 Weight: 75g Mounting option: On to 35mm symmetric DIN rail to BS EN 60715 or direct surface mounting via 2 x M3.5 or 4BA screws using the black clips provided on the rear of the unit.			DC1	25V 8A	(200W)		
Rated impulse withstand voltage: 4kV (1.2/50µS) IEC 60664  Housing: Orange flame retardant UL94  Weight: 75g  Mounting option: On to 35mm symmetric DIN rail to BS EN 60715  or direct surface mounting via 2 x M3.5 or 4BA screws using the black clips provided on the rear of the unit.				≥ 150,000 ops at rated load			
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Mounting option: On to 35mm symmetric DIN rail to BS EN 60715 or direct surface mounting via 2 x M3.5 or 4BA screws using the black clips provided on the rear of the unit.		Housing:	Orange flame retardant UL94				
or direct surface mounting via 2 x M3.5 or 4BA screws using the black clips provided on the rear of the unit.		Weight:	75g	75g			
using the black clips provided on the rear of the unit.		Mounting option:					
Terminal conductor size ≤ 2 x 2.5mm² solid or stranded							
		Terminal conductor size	≤ 2 x 2.5mm <sup>2</sup> solid	or stranded			

CUL US LISTED IND. CONT. EQ

Conforms to IEC. CE, Cand RoHS Compliant. EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 15V/m

Emissions: EN 61000-6-4

## **CONNECTION DIAGRAM**



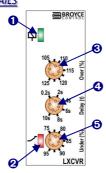
## **SETTING DETAILS**

1. Power supply status (Green) LED 2. Relay output / Timing

status (Red) LED 3. "Over %" trip level adjustment^

4. "Delay" adjustment 5. Under %" trip level

^scaled as % of the nominal voltage "Un"



Approvals:

## **DIMENSIONS**

