

Type: LXCVR Single Phase, Under and Over Voltage plus Time Delay

110, 115, 220¹, 230¹, 240V¹ AC

¹4kV (1.2/50µS) IEC 60664

Under and Over voltage

70% of Un (fixed) \pm 2%

≈ 2% of trip level (factory set)

± 0.5% at constant conditions

 \approx 1 sec. (worst case = Td x 2)

≥ 150,000 ops at rated load

2kV AC (rms) IEC 60947-1

4kV (1.2/50µS) IEC 60664

Orange flame retardant UL94

 \leq 2 x 2.5mm² solid or stranded

80MHz - 2.7GHz) Emissions: EN 61000-6-4

On to 35mm symmetric DIN rail to BS EN 60715

Conforms to IEC. CE, Cand RoHS Compliant.

or direct surface mounting via 2 x M3.5 or 4BA screws using the black clips provided on the rear of the unit.

EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 15V/m

Unde

83 - 105V

86 - 109V

165 – 209V

173 - 218V

180 - 228V

Note: actual delay (t) = adjustable delay + response time

75 – 95% of Un 105 – 125% of Un

Under [2]

77V

80\

154V

161V

168V

± 3%

<50mS

≈ 50mS

Green LED

-20 to +60°C

SPDT relay

Red LFD

+95%

AC1 AC15

DC1

75g

0.2 – 10 sec. (± 5%)

oltage when orderi

Over

250V 8A (2000VA)

25V 8A (200W)

250V 5A (no), 3A (nc)

116 - 138V

121 – 144V

231 – 275V

242 - 288V

252 - 300V

48 - 63Hz

8VA

70 – 130% Un

III (IEC 60664)

TECHNICAL SPECIFICATION

Under [2]:

Under Over:

110V:

115V

220V:

230V

240V

Supply/monitoring voltage Un* (A1, A2):

Frequency range

Supply variation:

Monitoring mode

Measuring ranges:

Trip levels:

Hysteresis: Setting accuracy:

Repeat accuracy:

Response time:

Time delay (t):

Ambient temp:

Output rating:

Electrical life:

Housing

Weight:

Approvals:

Dielectric voltage

Mounting option

Terminal conductor size

Rated impulse withstand voltage:

Relative humidity

Output (15, 16, 18)

Power on delay (Td):

Power on indication:

Relay status indication

Immunity from micro power cuts:

Overvoltage category:

Rated impulse withstand voltag

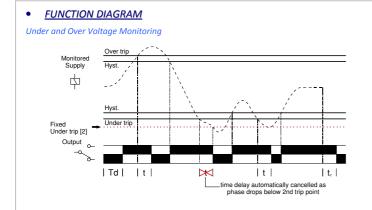
Power consumption (max.):



- *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

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- 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**



INSTALLATION AND SETTING

BEFORE INSTALLATION, ISOLATE THE SUPPLY.

Installation work must be carried out by qualified personnel.

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 %" 3 adjustment to maximum and the "Under %" 5 adjustment to minimum. Set the "Delay (t)" 🕘 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 correctly

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 voltage
- 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 2nd under voltage trip level, any set time delay is automatically cancelled and the relay de-energises)

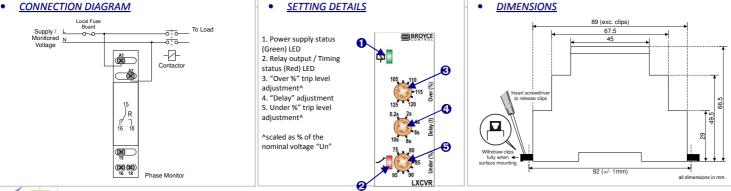
Note: If the supply voltage increases above the maximum "Over %" trip setting by approx. 5% or more, the relay will de-energise immediately.

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

CONNECTION DIAGRAM •





LXCVR-1-A

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