

Type: LPRD/2 Phase Failure, Phase Sequence, Under Voltage plus Restart Delay

≈ 2% of trip level (factory set)

 \pm 0.5% at constant conditions

≥ 150,000 ops at rated load

Orange flame retardant UL94

 $\leq 2 \times 2.5$ mm² solid or stranded

2kV AC (rms) IEC 60947-1 4kV (1.2/50µS) IEC 60664

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

On to 35mm symmetric DIN rail to BS EN 60715 or direct

Conforms to IEC. CE, Cand RoHS Compliant.

Immunity: EN 61000-6-2 Emissions: EN 61000-6-4

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

250V 5A (1250VA)

25V 5A (125W)

250V 2A

+ 3%

<50m ≈ 50ms

0.2 – 10s (± 5%)

1s – 5m (± 5%)

50 - 100m

Green LED

-20 to +60°C

+95% max

DPDT relay

AC1

AC15

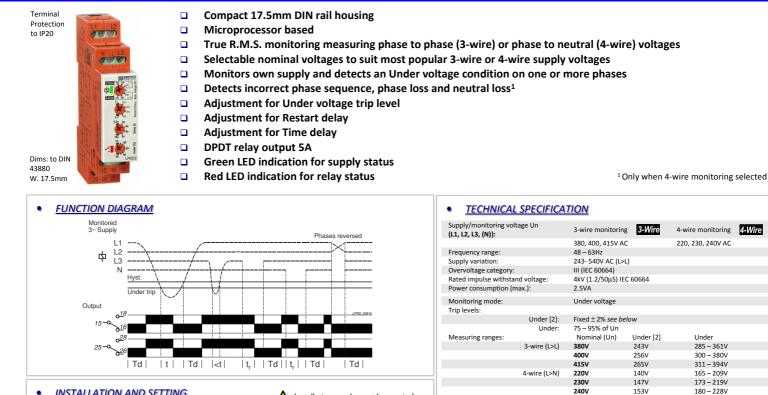
DC1

90g

FMC:

"L>L" has the same meaning as "phase to phase" and "L>N", the same as "phase to neutral"

Red LED



INSTALLATION AND SETTING ٠

Installation work must be carried out by qualified personnel.

Hysteresis:

Setting accuracy

Repeat accuracy: Immunity from micro power cuts

Response time (t_r):

Power on indication:

Relay status indication

Ambient temperature

Relative humidity:

Output rating

Electrical life:

Housing:

Approvals:

Note.

Weight: Mounting option:

Terminal conductor size

Restart/Power on delay (Td)

Output (15, 16, 18 / 25, 26, 28)

Dielectric voltage: Rated impulse withstand voltage:

Time delay (t)

Reset time:

- 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.
- Only connect the Neutral if available and 4-wire monitoring is required.

Applying power

- Set the "Nominal (Un)" 3 voltage selector to match that of the voltage being monitored.
- Set "Under %" 3 adjustment to minimum
- Set the "Delay (t)" 🗿 and "Restart Delay" 🔮 adjustments to minimum.
- Apply power and the green "Power supply" 1 LED will illuminate. The red relay 2 LED will flash and relay remain deenergised for the Power on delay (Td). After this period has elapsed, the LED will remain lit and relay energised. Note the red LED flashes at twice the rate of that when delaying the relay to de-energising. This is to help distinguish the two modes. Refer to the Troubleshooting table if the unit fails to operate correctly.

Setting the unit (with power applied).

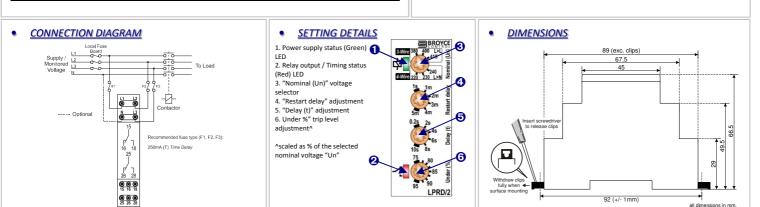
- Accurate setting can be achieved by adjusting the trip level "Under (%)" until the unit trips (relay de-energises) then by decreasing the trip level "Under (%)" until the relay re-energises. Close setting of the trip level ensures the unit will detect a phase loss even with a large percentage of re-generative voltage.
- In order to set the unit as previously described but without causing disruption to the equipment being controlled/monitored, set the "Delay (t)" to maximum. It will now be possible to establish the trip point when the red LED starts to flash. Decrease the trip level setting to stop the LED flashing.
- (Note: If the time delay is allowed to expire, the output relays will de-energise)
- If large supply variations are anticipated, the trip level should be set further from the nominal voltage

the status of the unit during a particular fault condition

Set the "Delay (t)" and "Restart delay" as required. (Note that the delay "t" is only effective should any phases fall below the set trip point. However, if the supply drops below the 2nd under voltage trip level, any set time delay is automatically cancelled and the relays de-energise immediately).

Troubleshooting

The table below shows the status of the unit during a particular fault condition.			
Supply fault	Green LED 🜖	Red LED 🥹	Relay
Phase or neutral missing	LED's flash alternately		De-energised
Phase or neutral restored (during restart timing)	On	Flashing (x2)	De-energised for delay (Td)
Phases reversed (no delay)	Flashing	Off	De-energised
Under voltage condition (during timing)	On	Flashing	Energised for delay (t)
Under voltage condition (after timing)	On	Off	De-energised
Voltage returned from Under voltage (during restart timing)	On	Flashing (x2)	De-energised for delay (Td)
Phases < fixed under trip level [2]	On	Off	De-energised





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LPRD 2-1-A.DOCX

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