

Type: LXPRC-4W

Phase Failure, Under and Over Voltage plus Time Delay

0.2 - 10 sec. (± 5%)

Green LED

-20 to +60°C

+95% max

SPDT relay

AC1

AC15

DC1

75g

Red LED

 \approx 150mS (worst case = tr x 2)

≈ 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

Grey flame retardant UL94 V0

 \leq 2 x 2.5mm² solid or stranded

CE, Cand RoHS Compliant.

Conforms to IEC.

Note: The "Supply / monitoring voltage Un" refers to the phase to neutral nominal voltage for the product and voltage variants available. To convert these voltages to a phase to phase voltage,

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.

IND. CONT. EQ. E111187

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

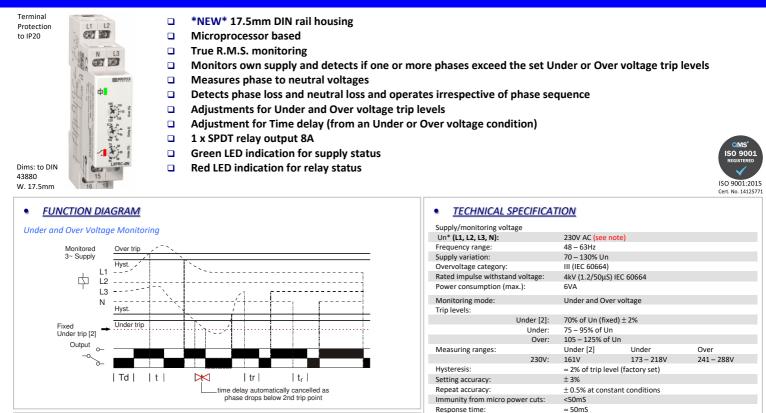
80MHz - 2.7GHz. Emissions: EN 61000-6-4

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

250V 8A (2000VA)

25V 8A (200W)

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



Installation work must be carried

out by qualified personnel.

Time delay (t):

Power on delay (Td):

Power on indication:

Ambient temp:

Output rating:

Electrical life:

Housing

Weight:

Approvals:

Dielectric voltage

Mounting option:

multiply by 1.732.

Terminal conductor size

Rated impulse withstand voltag

Relative humidity:

Output (15, 16, 18)

Relay status indication:

Delay from Phase/Neutral loss (tr):

INSTALLATION AND SETTING

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

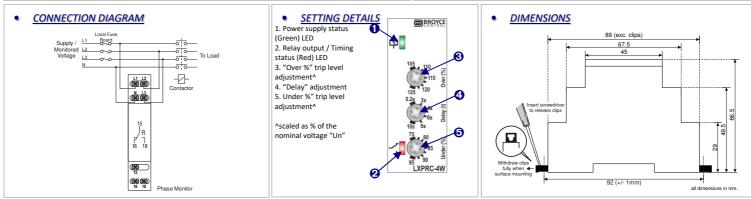
- Set the "Over %" and the "Under %" adjustments to give the required monitoring range.
- If large supply variations are anticipated, the adjustments should be set further from the nominal voltage.
- Set the "Delay (t)" adjustment as required. (Note that the delay is only effective should the supply 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
Phase or neutral missing	On	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
Phase below 70% of Un (fixed under trip level [2])	On	Off	De-energised



HS Code: 85364900 Country of Origin: UK Broyce Control Ltd., Pool Street, Wolverhampton, West Midlands WV2 4HN. England

Tel: +44 (0) 1902 773746 Fax: +44 (0) 1902 420639 Email: sales@broycecontrol.com Web: www.broycecontrol.com

The Information provided in this literature is believed to be accurate (subject to change without prior notice); however, use of such information shall be entirely at the user's own risk.

LXPRC-4W-3-A

2301