

Terminal

Type: LXPRT-4W Phase Failure, Phase Sequence, Under Voltage plus Time Delay

+95%

AC1 AC15

DC1

75g

SPDT relation

≥ 150,000 ops at rated load

2kV AC (rms) IEC 60947-1

4kV (1.2/50uS) IEC 60664

Grev flame retardant UL94

≤ 2 x 2.5mm² solid or stranded

CE, UKCA, Cand RoHS Compliant.

67.5

45

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.

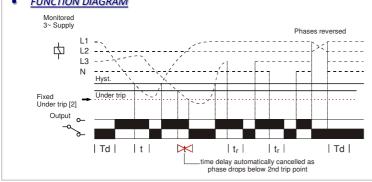
IND. CONT. EQ

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

E111187

230V





INSTALLATION AND SETTING ٠

- 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 "<U (volts)" 3 and "Delay (t)" 3 adjustment to minimum
- Apply power and the green "Power supply" 1 and red "Relay" 2 LED's will illuminate, relay 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).

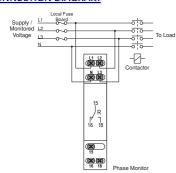
- Accurate setting can be achieved by adjusting the trip level "<U (volts)" until the unit trips (relay deenergises) then by decreasing the trip level "<U (volts)" until the relay re-energises. Close setting the trip level ensures the unit will detect a phase loss even with a large percentage of re-generative 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 "Relay" 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 relay will de-energise)
- If large supply variations are anticipated, the trip level should be set further from the nominal voltage. . Set the "Delay (t)" as required. (Note that the delay is only effective should the supply drop below the set trip level. However, if during an under voltage condition the supply drops below the $2^{\mbox{\scriptsize nd}}$ 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 "<U" trip setting by approx. 10% or more, the relay will de-energise immediately

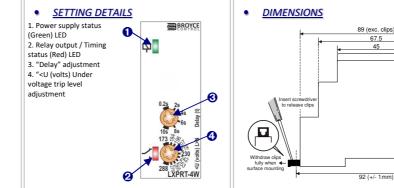
Troubleshooting

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
Phases reversed (no delay)	Flashing	Off	De-energised
Under Voltage condition (during timing)	On	Flashing	Energised for set delay (t)
Under Voltage condition (after timing)	On	Off	De-energised
Phase below 70% of Un (fixed under trip level [2])	On	Off	De-energised

CONNECTION DIAGRAM





HS Code: 85364900	
Country of Origin: U	JK

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

he 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.

LXPRT-4W-3-A

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		1	SO 9001
		c	Cert. No. 14
ON			
230V (400V) AC (see	note)		
48 – 63Hz			
± 30%			
III (IEC 60664)			
4kV (1.2/50µS) IEC 6	60664		
6VA			
Under voltage			
Under [2]	Under		
161V	173 – 288V		
\approx 2% of trip level (fa	ctory set)		
± 3%			
$\pm0.5\%$ at constant of	onditions		
<50mS			
≈ 50mS			
0.2 – 10 sec. (± 5%)			
Note: actual delay (elay + respor	nse time
≈ 150mS (worst cas	,		
\approx 1 sec. (worst case	= Td x 2)		
Green LED			
Red LED			
-20 to +60°C			

250V 8A (2000VA)

25V 8A (200W)

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

Supply/monitoring voltage

Rated impulse withstand voltag

Immunity from micro power cuts:

Delay from Phase/Neutral loss (tr):

Power consumption (max.):

U* (L1. L2. L3. N):

Frequency range

Monitoring mode:

Supply voltage

Setting accuracy:

Repeat accuracy:

Response time Time delay (t):

Power on delay (Td):

Power on indication:

Ambient temp:

Relative humidity

Output (15, 16, 18)

Output rating:

Electrical life:

Housing

Weight:

Approvals:

Dielectric voltage

Mounting option

Terminal conductor size

Rated impulse withstand voltage

Relay status indication

Trip levels

Hysteresis:

Overvoltage category:

Supply variation

The "Supply / monitoring voltage U" 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, multiply by 1.732. The voltage shown in brackets is the equivalent phase to phase voltage.

Conforms to IEC.

(UL)LISTED

80MHz - 2 7GHz)

Emissions: EN 61000-6-4