

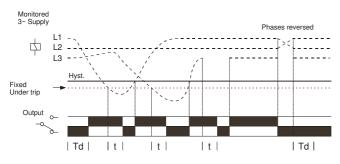
Datasheet

Stock No. 102-6135

Phase Failure, Phase Sequence and Under Voltage

- *NEW* 17.5mm DIN rail housing
- **Microprocessor based**
- True R.M.S. monitoring
- Monitors own supply and detects an Under voltage condition on one or more phases
- Measures phase to phase voltages
- Detects incorrect phase sequence and phase loss
- Fixed Under voltage trip level
- **Fixed Time delay**
- 1 x SPDT relay output 8A
- Green LED indication for supply status
- **Red LED indication for relay status**

FUNCTION DIAGRAM



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.

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.

Note:

If the supply voltage increases above the maximum supply/monitoring voltage range by approx. 10% or more, the relay will de-energise immediately.

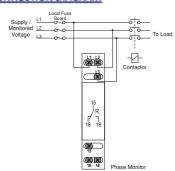
This device is not suitable for applications where there could be a percentage of re-generative voltage Termina present during a fault condition, i.e. fuse failure. During these conditions a monitor that includes an adjustable under voltage trip level is necessary which allows this type of fault to be detected. It is therefore recommended that the LXPRT or LXPRT-4W phase monitors be considered.

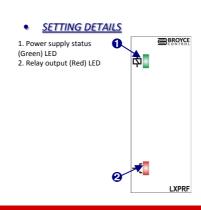
Troubleshooting.

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

1	Supply fault	Green LED	Red LED	Relay
	Phase missing	On	Off	De-energised
	Phases reversed (no delay)	Flashing	Off	De-energised
	Phase below 70% of Un (fixed under trip level [2])	On	Off	De-energised

CONNECTION DIAGRAM

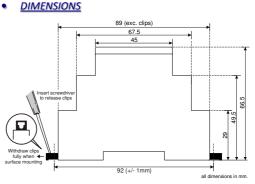




TECHNICAL SPECIFICATION

<u>real more of earlier morthold</u>				
Supply/monitoring voltage				
∪ (L1, L2, L3):	280 – 520V AC			
Frequency range:	48 – 63Hz			
Supply variation:	± 30%			
Overvoltage category:	III (IEC 60664)			
Rated impulse withstand voltage:	4kV (1.2/50µS) IEC 60664	4		
Power consumption (max.):	8VA			
Monitoring mode:	Under voltage			
Trip level (fixed) ± 2%:	Under			
Supply voltage 280 – 520V:	280V			
Hysteresis:	≈ 2% of trip level (factory	y set)		
Repeat accuracy:	\pm 0.5% at constant condi	tions		
Immunity from micro power cuts:	<50mS			
Response time:	≈ 50mS			
Time delay (t):	≈ 100mS			
	Note: actual delay (t) = d			
Delay from Phase loss (tr):	≈ 150mS (worst case = tr			
Power on delay (Td):	\approx 1 sec. (worst case = Td	x 2)		
Power on indication:	Green LED			
Relay status indication:	Red LED			
Ambient temp:	-20 to +60°C			
Relative humidity:	+95% max.			
Output (15, 16, 18):	SPDT relay			
Output rating:	AC1	250V 8A (2000VA)		
	AC15	250V 5A (no), 3A (nc)		
	DC1	25V 8A (200W)		
Electrical life:	≥ 150,000 ops at rated lo	bad		
Dielectric voltage:	2kV AC (rms) IEC 60947-2	1		
Rated impulse withstand voltage:	4kV (1.2/50µS) IEC 60664	4		
Housing:	Orange flame retardant	UL94 V0		
Weight:	75g			
Mounting option:	On to 35mm symmetric I			
		ng via 2 x M3.5 or 4BA screws		
To provide all a second statements of	4 sing the black clips prov < 2 x 2.5mm ² solid or strain < 2 x 2.5mm ² solid or strain	vided on the rear of the unit.		
Terminal conductor size		anded		
Approvals:	Conforms to IEC.			
		CONT. EQ.		
		E111187		
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CE, Cand RoHS Compliant. EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 15V/m 80MHz - 2.7GHz) Emissions: EN 61000-6-4





ENGLISH