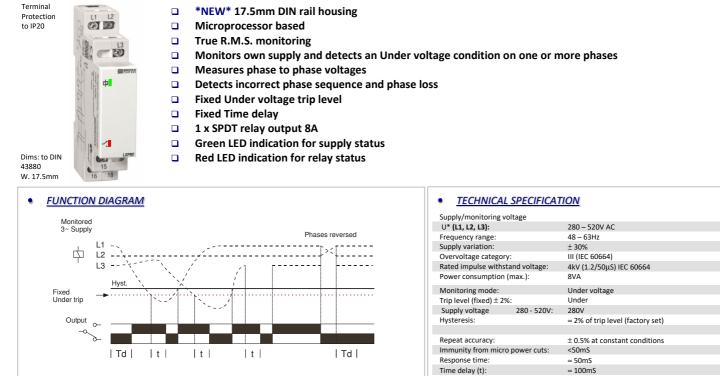


Type: LXPRF Phase Failure, Phase Sequence and Under Voltage



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.

Applving 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.

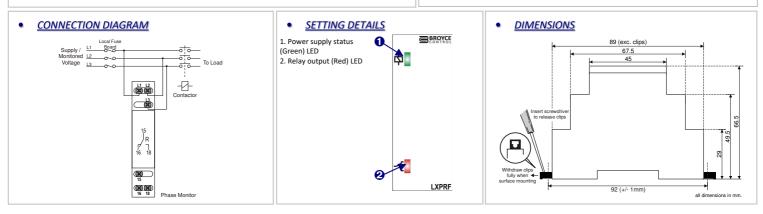
This device is not suitable for applications where there could be a percentage of re-generative voltage present during a fault condition, i.e. fuse failure. During these conditions a monitor that includes an adjustable under voltage trip level is necessary which allows this type of fault to be detected. 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.

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

- TECHNICAL SI ECHICA	1011		
Supply/monitoring voltage			
U* (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		
Power consumption (max.):	8VA		
Monitoring mode:	Under voltage		
Trip level (fixed) ± 2%:	Under		
Supply voltage 280 - 520V:	280V		
Hysteresis:	$\approx 2\%$ of trip level (factory set)		
Repeat accuracy:	± 0.5% at constant conditions		
Immunity from micro power cuts:	<50mS		
Response time:	≈ 50mS		
Time delay (t):	≈ 100mS		
	Note: actual delay (t) = delay	+ response time	
Delay from Phase loss (tr):	\approx 150mS (worst case = tr x 2)		
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 +95% max.		
Relative humidity:	+95% max.		
Output (15, 16, 18) :	SPDT relay		
Output rating:	AC1	250V 8A (2000VA)	
	AC15	250V 5A (no), 3A (nc)	
EL	DC1	25V 8A (200W)	
Electrical life:	\geq 150,000 ops at rated load		
Dielectric voltage:	2kV AC (rms) IEC 60947-1		
Rated impulse withstand voltage:	4kV (1.2/50µS) IEC 60664		
Housing:	Grey flame retardant UL94 VC	1	
Weight:	75g		
Mounting option:	On to 35mm symmetric DIN r		
	or direct surface mounting via		
	using the black clips provided		
Terminal conductor size	\leq 2 x 2.5mm ² solid or strande	d	
Approvals:	Conforms to IEC.		
	IND. CONT.	EQ. 1187	
	CE, UKCA, C and RoHS Comp EMC: Immunity: EN 61000-6-2 80MHz - 2.7GHz) Emissions: EN 61000-6-4		



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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.

LXPRF-4-A