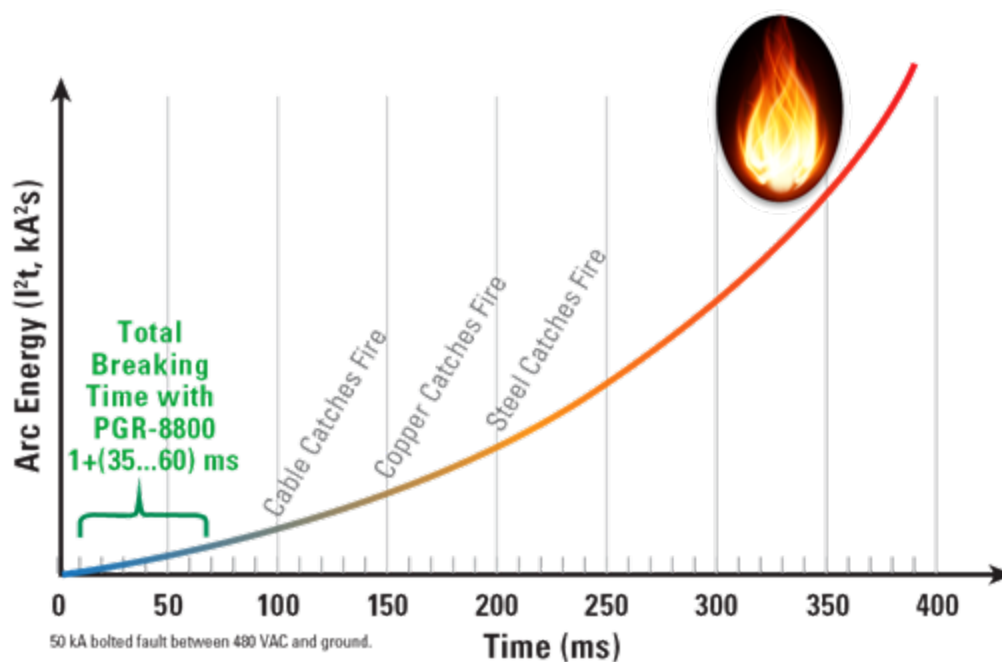


Welcome to Tech-Aware 6: Arc Flash

One subject that has heightened concern and interest lately is Arc Flash protection. Littelfuse (Startco) has the PGR-8800 Arc Flash unit which has a number of benefits when implemented to minimise Arc Flash hazard.

An Arc Flash can erupt to catastrophic levels in a matter of milliseconds..... The example below shows the effects from a 50kA bolted fault between a 480 VAC system and earth. As you can see the potential damage results, literally, in the blink of an eye.



One important feature of the **PGR-8800** is the unit can be configured to trip an **upstream Breaker** as a backup to the local circuit breaker failure. So, in the event of an Arc Flash - **IF** the local breaker fails to open when the PGR-8800 initiates a trip via the IGBT output, the unit can also be configured to detect that failure to open and initiate a trip command to the upstream circuit breaker.

Brief Stat's on the Littelfuse PGR-8800:

- **Arc fault detection < 1 ms**
- **Upstream back-up Trip operation**
- -25°C to +70°C operating range
- 120-240 Vac/Vdc Supply
- 12-48 Vdc Supply
- 10k-40k lux Sensitivity

- Current-Supervised Optical Protection
Prevent nuisance trips
- Overcurrent protection
Two definite-time set points



- 6 fiber-optic or point-sensor inputs
- Operate stand-alone with front sensor
- Link up to 4 modules
- Dual inputs for switches and PLCs
- Event logging
- Fail-safe operation
 - Fully redundant trip path
- Local USB interface
 - No drivers or software required

[Please see the Data Sheet on the PGR-8800](#)

To ensure fast download speeds of the Tech-Aware Bulletin and unnecessary file sizes, we endeavour to keep our Tech-Aware bulletins brief and to the point.

If you would like further information on the PGR-8800, please contact Startco Pty Ltd for the following additional information:

- **Arc Flash Application Guide to assist in selection and implementation of Arc Flash Protection**
- **PGR-8800 Brief overview (Power Point)**
- **PGR-8800 Arc Flash Manual.**
- **PGR-8800 Quotation**