

# ARC-FLASH PROTECTION AND GFCI

## PGR-8800 (D1000) Arc-Flash Protection Relay



### Description

The PGR-8800 is a microprocessor-based relay that limits arc-fault damage by detecting the light from an arc flash and rapidly tripping. Phase-current-transformer inputs are provided for current-constrained arc-flash protection and, when so equipped, a programmable definite-time overcurrent function can be enabled. An optical sensor on the PGR-8800 and adjustable trip level reduce the chance of nuisance tripping by setting a threshold for ambient light. Sensors, inputs, and connections are monitored to ensure fail-safe operation. A secondary solid-state trip circuit provides a redundant trip path. A USB port is used for configuration and access to event logs and graphs.

### Ordering Information

ORDERING NUMBER	COMMUNICATIONS
PGR-8800-00 (UL, CE, C-tick)	Multi-unit linking, Modbus® RTU
ACCESSORIES	REQUIREMENT
PGA-LS10 (A1000)	Required*
PGA-LS20 (A2000)/ PGA-LS25 (A2000.0020) PGA-LS30 (A2000.0030)	Required*
PGA-1100 (D1100)	Optional
Current Transformer	Recommended

\*At least one sensor is required. However, the exact number of sensors for proper coverage depends on the application.

### Specifications

<b>IEEE Device Numbers</b>	Overcurrent (50), Arc Flash (AFD)
<b>Input Voltage</b>	100-240 Vac, 14-48 Vdc, and 110-250 Vdc
<b>Dimensions</b>	<b>H</b> 130 mm (5.2"); <b>W</b> 200 mm (7.9"); <b>D</b> 54 mm (2.2")
<b>Optical Trip Settings</b>	9-25 klux, 800 μs-20 s
<b>Current Trip Setting (A)</b>	Programmable
<b>Indication Contact Mode</b>	Fail-safe
<b>Trip Coil Voltage<sup>(1)</sup></b>	24-300 Vdc, 24-300 Vac
<b>Expandable System</b>	Link up to 4 PGR-8800 units
<b>Warranty</b>	5 years
<b>Mounting</b>	DIN (with D0050 adapter clips), Surface

### Web Resources

[littelfuse.com/arcflash](http://littelfuse.com/arcflash)

## Industrial Shock-Block Ground-Fault Circuit Interruption



### Open-Chassis Model



Operator Interface

Enclosed Model

### Description

#### Special Purpose Ground-Fault Circuit Interrupter (GFCI), Class C and Class D

Industrial Shock Block (ISB) is a personnel protection device designed to meet the new requirements for special-purpose GFCIs defined by UL 943C. ISB is the first and only permanently connected Class C and Class D GFCI on the market. Class C GFCIs is introduced to be used on systems where the line-to-line voltage is 480 V or less with a trip level of 20 mA, while Class D GFCI is intended to be used on 600 V systems. These improvements to the standard Class A GFCI (6 mA trip level used on 240 V systems or less) were made to allow the use of GFCIs in industrial facilities.

#### Equipment Ground-Fault Protective Device (EGFPD)

ISB is also available with adjustable protection settings as an EGFPD. The EGFPD models can be set to trip at 6, 10, 20 or 30 mA. This offers more flexibility since GFCI devices are not allowed to have an adjustable trip level.

### Ordering Information

ORDERING NUMBER	VOLTAGE (V)	TRIP LEVEL (mA)	UL CATEGORY/CLASS
SB6100-00x-0	208	20 (Fixed)	UL 943C Class C special-purpose GFCI
SB6100-10x-0	240		
SB6100-20x-0	480		
SB6100-30x-0	600		
SB6100-01x-0	208	6, 10, 20, 30 (Selectable)	UL 943/UL 1053 Equipment ground-fault protective device (EGFPD)
SB6100-11x-0	240		
SB6100-21x-0	480		
SB6100-31x-0	600		

Note: x=0 for open-chassis models and 1 for enclosed models

### Specifications

<b>Voltage Rating</b>	See ordering information
<b>Amperage Rating</b>	100 A (continuous)
<b>Short Circuit Rating</b>	50,000 A
<b>Trip Level Settings</b>	Selectable (6, 10, 20, 30 mA), or fixed at 20 mA
<b>Trip Time Setting</b>	Inverse time trip curve
<b>Dimensions</b>	<b>Enclosed:</b> <b>H</b> 453.8 mm (17.9"); <b>W</b> 406.2 mm (16.0"); <b>D</b> 223.3 mm (8.8") <b>Open-chassis:</b> <b>H</b> 455.0 mm (17.9"); <b>W</b> 340.7 mm (13.4"); <b>D</b> 174.9 mm (6.8")

### Web Resources

[littelfuse.com/IndustrialShockBlock](http://littelfuse.com/IndustrialShockBlock)