

PORTABLE EQUIPMENT:

**SHOP BAYS:** 

WELDER

WELDER

DEWATERING PUMPS

BORING BAR

PUMPING SKIDS SUBMERSIBLE PUMPS

### **Advancing Electrical Safety at the Mine with** the Most Reliable GFCI Protection - up to 600 V

In the mining industry, providing power for lighting, conveyors, pumps, fans, and other equipment can create a situation where personnel can be exposed to electrical shock hazards. The Littelfuse SB5000 ensures safe distribution of electrical power in both surface and underground mining.

### The Littelfuse Shock Block SB5000:

- reduces unnecessary tripping by following an inverse trip time and using DFT filtering
- is offered in a hygienic stainless steel enclosure, with NEMA 4X and IP69K ratings well suited for food-preparation environments
- has advanced ground-check features with Zener termination options, which can identify a crushed cable before the equipment is energized
- improves safety by reducing the risk of ventricular fibrillation for leakage current of 250 mA and above

## **Rock-Solid Business Defense**

- Shock Block is an investment in employee health. Injury claims and potential lawsuits arising from electrical shock accidents are prevented
- Minimize excess training time, as Shock Block does the work behind the scenes to keep employees safe from electrical shock without human intervention

### **Description**

Available with Class A, C, D and EGFPD options, the SB5000 can be used in a wide range of applications. It offers proactive ground check on every model and helps increase efficiency and safety with a no-nuisance approach to personnel protection. The 32 A and 60 A models are also available in a hygienic stainless steel enclosure, with a 10 degree sloped top and FDA-compliant silicone gasket, designed to improve sanitation in food processing facilities. It is UL-certified as a 3-phase industrial GFCI for 208 to 600 V applications with a maximum full load current up to 100 A.

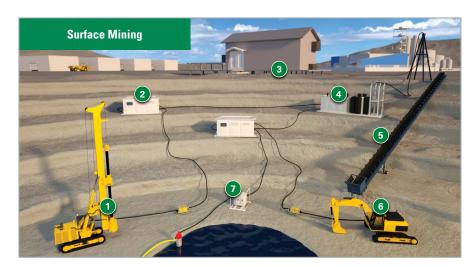
#### Features & Benefits

Feature	Benefit
UL 943 inverse time trip curve	Inverse time detection circuit protects people while also reducing unnecessary trips
DFT (Discrete Fourier Transform) filtering algorithm	Eliminates nuisance trips due to harmonics
Minimum trip time < 20 msec	Reduces the risk of ventricular fibrillation for leakage current of 250 mA and above
Fixed 6 mA (UL 943) or 20 mA (UL 943C) trip level	UL Listed GFCI and personnel protection for industrial and commercial loads up to 100 A
Selectable trip levels (EGFPD) 6-100 mA	The settings below 20 mA provide extra safety. The settings above 20 mA can provide partial range personnel protection for loads with higher nominal leakage currents.
Two-stage ground monitor with Zener termination that meets UL 943C and CSA M421	Proactively protects from shock by tripping if continuity of ground wire between Industrial Shock Block and load is compromised
Flexible configuration	Selectable manual reset or auto reset for brownout, power up, and ground monitor interruptions to fit safety protocols
Conformal coating	Circuit boards are conformally coated to protect against corrosion and moisture
Auxiliary contact	Alerts your SCADA system if the Shock Block is energized or tripped
Automatic self-test	The Shock Block will continuously test itself and will trip if there is an internal failure
GFCI Class A, C, D and EGFPD options in one series	Simplified planning and operator familiarity for multiple applications/requirements
Hygienic stainless steel enclosure, with a 10 degree sloped top and FDA-compliant blue silicone gasket	Designed to support sanitation process in food processing facilities.

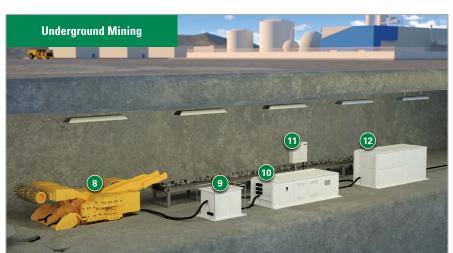




### SB5000 Industrial GFCI for Electrical Shock Protection in Surface and Underground Mining



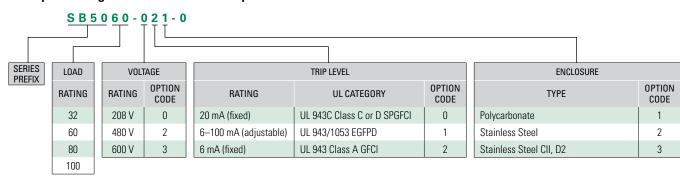
- 1 Mining Drill
- 2 Portable Power Center
- 3 Electrical Modular Building / E-House
- 4 Switchgear
- 5 Conveyor System
- 6 Mining Shovel
- 7 Portable Pump Panel



- 8 Mining Machine
- 9 Power Center
- 10 Conveyor Substation
- 11) Power Take-Off Panel
- 12 Main Substation

# **Ordering Information**

### Example catalog number from desired options



For more information, visit Littelfuse.com/ShockProtection

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