

SB5000 Series - Industrial Shock Block® GFCI

Problem/Solution

The Littelfuse SB5000 series of ground-fault circuit interrupter (GFCI) products are compact personnel protection devices that prevent electrical shock. It is a Class A device that meets the new NEC 210.8(B) now for three-phase loads up to 60 A. It is also designed to meet the requirements for special-purpose Class C and Class D GFCIs defined by UL 943C for industrial facilities.

The GFCI Class A, C, D and EGFPD options come in one series to simplify planning and operator familiarity for multiple applications and/or requirements.

Technical Resources:



Series Page



Overview &
Tech Info



SB5000
Datasheet



SB5000
Commercial
Kitchen
Flyer



SB5000
Food &
Beverage
Flyer



Benefits

- Inverse time detection circuit protects people while also reducing the probability of nuisance tripping
- Eliminates nuisance trips due to harmonics
- Reduces the risk of ventricular fibrillation for leakage current of 250 mA and above
- UL Listed GFCI and Special-Purpose GFCI personnel protection for industrial and commercial loads up to 60 A
- The settings below 20 mA provide extra safety. The settings above 20 mA can reduce nuisance tripping on systems with high leakage current
- Proactively protects from shock by tripping if continuity of ground wire between Industrial Shock Block and load is broken

Features

- UL 943 inverse time trip curve
- DFT (Discrete Fourier Transform) filtering algorithm
- Minimum trip time < 20 msec
- Fixed 6 mA (UL 943) or 20 mA (UL 943C) trip level
- Selectable trip levels (EGFPD)
- Two-stage ground monitor with Zener termination that meets UL 943C and CSA M421

Applications

- Places where electrical equipment is being used outdoors or in wet environments
 - Food and beverage processing / commercial kitchens
 - Construction / mining
 - General manufacturing