



## Guideform Specification

### Bender LifeGuard® Ground Fault Control Panel Specification

Bender LifeGuard® LG2-series protection panels shall be provided that detect ground-leakage current and interrupt the supply when levels exceed the setting via an internal contactor. AC and DC detection shall protect all stages of power conversion equipment, such as adjustable speed drives and uninterpretable power supplies. The unit shall include factory wired control power transformer, Bender ground fault relay and CT sensor, and 4 pole contactor. The unit shall be designed for cable in from the upstream circuit breaker – cable out to the load being protected.

Bender LG2- series protection panels are available in a wide range of current ratings and are suitable for use in circuits up to 600 Vac. LifeGuard LG2-series protection panels shall be UL 508A listed industrial control panels.

Ground fault interruption in single- or three-phase AC systems up to 600 Vac and 100 A to include systems with DC components such as systems with adjustable speed drives (ASDs, VFDs).

For solidly grounded and resistance-grounded systems, all models rated for use up to 600 V, Single-phase and three-phase AC circuits. Filtering to avoid nuisance tripping from harmonic noise shall be included.

Select a.) OR b.) –

**a.) Models with adjustable trip level** and time settings, adjustable 10 to 500 mA AC/DC, adjustable 0 to 10 s definite time.

OR

**b.) Models with fixed trip** shall provide a non-adjustable 6-mA pickup and an inverse-time characteristic (faster trip on higher current) consistent with the UL 943 Standard, including 25- ms response at 250 mA. Filtering helps to prevent nuisance tripping, particularly in circuits with long cables or ASDs.

Clear indication for 'on' and 'trip' indication mounted on the enclosure front cover. 'Test' and 'reset' pushbuttons shall be included on the relay. Polycarbonate type 4X enclosed models shall be suitable for wet and washdown environments.

