EGF series ground fault control station

Installation & Maintenance Information

IF 1289

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

APPLICATION

EGF Series ground fault control stations are used for applications that have special ground fault Interruption requirements for the additional safety of personnel, and for equipment protection in remote areas.

EGF Series ground fault control stations are suitable for use in Class I, Groups C, D; Class II, Groups E, F, G and Class III hazardous (classified) locations, as defined by the National Electrical Code® as well as in NEMA 3, 7CD, 9EFG, and 12 applications.

EGF Series ground fault control stations should be installed, inspected, maintained and operated by qualified and competent personnel.

INSTALLATION

⚠ WARNING

To avoid personal injury or equipment failure, electrical power must be OFF before and during installation and maintenance.

1. Select a mounting location that will provide suitable strength and rigidity for supporting all contained wiring and control devices. Figure 1 shows the mounting dimensions of EGF series enclosures. Drill two 7/16 inch mounting holes.

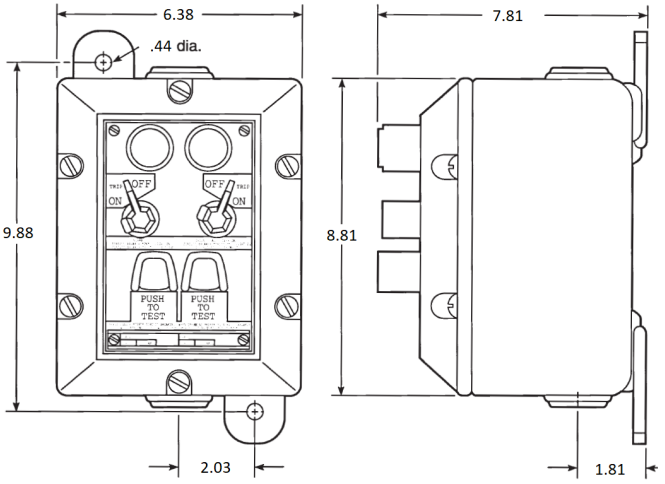


Figure 1. Dimensions

2. Securely fasten enclosure to the mounting surface then attach into conduit system.

CAUTION

Hazardous location information specifying class and group listing of each device is marked on the nameplate of each enclosure. Also note that:

- No conduit openings are to be added in the field.
- All unused conduit openings must be plugged and these plugs must be a minimum of 1/8 in. thick and have a minimum of five threads engaged.
- All conduits entering and leaving the enclosure must be sealed with explosionproof seals within 18 in. of the enclosure.

3. Remove the six cover bolts, then lift cover off and carefully set it aside to prevent damage to the ground joint.

CAUTION

Hammers or prying tools must not be allowed to damage the flat ground-joint surfaces. Do not handle covers roughly, or place them on surfaces that might damage or scratch the flat ground-joint surfaces.



4. Using #14 - #10 AWG copper wire, pull wires into the enclosure making sure that they are long enough to make the required connections. Make the electrical connections as established in Figure 2. Dotted line connections are field wiring. Set circuit breaker handles in the off position to properly line up with the external operators in step 6.
5. Test wiring for correctness with continuity checks and also for unwanted grounds with insulation resistance tester.
6. Place circuit breaker operators in OFF position making sure that the internal mechanism of the cover will properly engage each circuit breaker.

CAUTION

Clean both ground-joint surfaces of body and cover before installing. Dirt or foreign material must not accumulate on flat ground-joint surfaces. Surfaces must seat fully against each other to provide a proper explosionproof seal.

7. Install cover. Securely tighten all cover bolts making certain that no cover bolts are omitted. Use only bolts supplied with the enclosure.
8. Pour sealing compound into sealing fittings in accordance with the instructions supplied with each of the approved fittings and sealing compound package labels.

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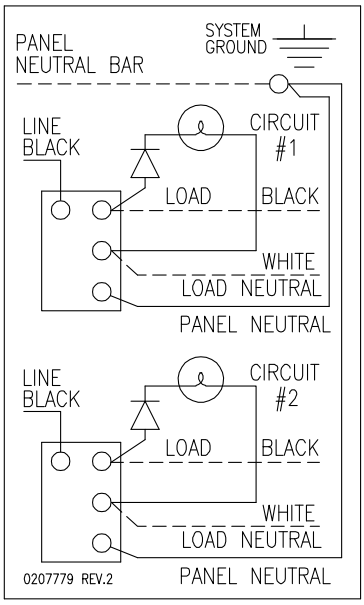


Figure 2. Electrical schematic
Field wiring #14 - #10

MAINTENANCE GENERAL

1. Frequent inspection should be made. A schedule for maintenance check should be determined by the environment and frequency of use. It is recommended that it should be at least once a year. We recommend an Electrical Preventive Maintenance Program as described in the National Fire Protection Association Bulletin NFPA No. 70B: Recommended Practice For Electrical Equipment Maintenance (www. nfpa.org).
2. If necessary to open enclosure for inspection or service, always disconnect primary power source before opening enclosure.
3. Perform visual, electrical, and mechanical checks on all components on a regular basis.
   - Visually check for undue heating evidenced by discoloration of wires or other components, damaged or worn parts, or leakage evidenced by water or corrosion in the interior.
   - Electrically check to make sure all connections are clean and tight, and that contacts in the components make or break as required.
   - Mechanically check that all parts are properly assembled, and operating mechanisms move freely.

REPLACEMENT PARTS

Eaton's Crouse-Hinds series EGF series Ground Fault Control Stations are designed to provide years of reliable performance. However, should the need for replacement parts arise, they are available through your authorized Eaton's Crouse-Hinds distributor. Assistance may also be obtained through your local Eaton's Crouse- Hinds representative or the Eaton's Crouse-Hinds Sales Service Department, 1201 Wolf Street, Syracuse, New York 13208, Phone 866-764-5454.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Eaton's Crouse-Hinds Division's "Terms and Conditions of Sale," and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.

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