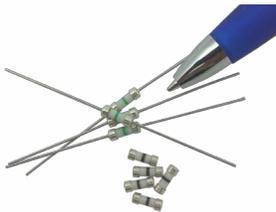




Eaton Provides Circuit Protection for Hazardous Applications



Limiting the amount of energy during an unplanned electrical event occurring in a hazardous area is a critical requirement when designing and implementing electrical systems. For manufacturers using sensitive chemicals, gases or other ignitable atmospheres, limiting the current, voltage and total energy delivered to a sensor within an intrinsic safety relay barrier can prevent a fire or explosion. A key component of this barrier is the fuse which must have a suitable interrupting rating to safely open the circuit.

The Eaton C308F series of fast acting ceramic tube fuses for hazardous applications provide a space-saving solution for intrinsic safety relay barriers with a high interrupting rating for primary and secondary circuit protection up to 250 volts AC or DC and 250 mA.

With a wider variety of amp ratings, the C308F allows

OEMs to size fuses closer to the nominal current while preventing nuisance openings, providing better protection in a critical application. Although the C308F is not encapsulated, it can be encapsulated as received from Eaton to help in meeting safety certifications for intrinsic safety per IEC 60079-11*. The C308F has a lower DCR than competition and robust environmental performance.

Intrinsic safety is a safety technique that applies to equipment that can create one or more of a range of defined explosion sources: electrical sparks, electrical arcs, flames, hot surfaces, electromagnetic radiation, chemical reactions, mechanical impact, mechanical friction, compression ignition, acoustic energy, or ionizing radiation. With a lower DCR and watts loss, Eaton is providing the market with more efficient overcurrent protection and more reliable products.

Eaton's C308F offers better protection in a critical application, allowing OEMs to benefit by lowering the energy

losses in their system. End users benefit by having a greater selection of products with better circuit protection while reducing nuisance openings.

Proven Intrinsic Safety Protection

One of the world's largest oil field companies recognized these benefits of Eaton's C308F fuses. Several of the C308F fuses were used on each of the PCBs to provide equipment protection in an encapsulated, intrinsically safe application per IEC 60079-11. Due to the hazardous environment where the equipment operates, the C308F fuse was the correct choice for reliable electrical performance.

When designing applications suitable for harsh/hazardous environments, selecting the right circuit protection can mean the difference between preventing long-term damage and failure. Eaton's C308F fuses are essential to providing the utmost intrinsic safety protection.

C308F Features:

- Meets electrical performance specifications for intrinsically safe (EN60079-11) applications
- Fast-acting, high interrupting rating of 4000 A at 250 Vac/dc
- Ceramic tube, silver-plated brass end cap construction
- Optional axial leads (tinned copper axial leads construction)
- RoHS compliant

Examples of Hazardous Applications Include:

- Petrochemical processing and refining equipment
- Pulp and paper processing equipment
- Pharmaceutical equipment
- Intrinsically safe network barriers

*Eaton has performed application specific testing to ensure encapsulation suitability. Please reach out to your Eaton Electronics Sales Representative for more information on this testing.

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