Dietz Electric Highlights Flameproof Motor Safety Options

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MILWAUKEE, WI - January 30, 2026 -
Dietz Electric Co., Inc. has announced expanded availability of its flameproof motor product line, offering industrial facilities comprehensive solutions for hazardous location applications. The company provides motors certified to meet ATEX, IECEx, UL, and CSA standards, addressing the growing demand for explosion-proof electrical equipment across multiple industries.

The flameproof motors supplied by Dietz Electric are engineered to contain sparks and flares within the motor enclosure, preventing ignition sources from reaching surrounding atmospheres where combustible gases, vapors, or dust may be present. This containment design represents a critical safety measure for facilities operating in environments classified under Class I, Class II, and Class III hazardous location standards established by the National Fire Protection Association.

Mark Henson, owner of Dietz Electric Co. Inc., emphasized the importance of proper motor selection for hazardous environments. "Facilities operating in areas with flammable substances face unique challenges when specifying electrical equipment," Henson stated. "Our partnerships with manufacturers who have decades of experience in explosion-proof motor design allow us to provide solutions that meet both domestic

and international certification requirements."

The company offers Zone 1 flameproof motors through its partnership with ATB-Wolong Nordenham GmbH, a manufacturer that introduced its first explosion-proof motor in 1952. ATB motors are recognized for low-maintenance operation and reduced noise levels, characteristics that have established the brand as a reliable source for hazardous location applications over more than six decades of production.

Additional Zone 1 flameproof products available through Dietz Electric include motors manufactured by Brook Crompton, Siemens, CEMP, Elprom, and ABB. Each of these manufacturers maintains ATEX and IECEx certifications, ensuring compliance with European and international standards for equipment used in explosive atmospheres. The availability of multiple manufacturer options allows industrial purchasers to specify motors based on particular application requirements and existing facility standardization preferences.

For Zone 2 applications, where explosive elements are not continuously present but may occur during equipment malfunctions or container failures, Dietz Electric supplies EEx nA rated motors from Brook Crompton, ABB, and Siemens. These motors provide appropriate protection levels for environments where hazardous conditions exist intermittently rather than as a constant operational factor.

The classification system for hazardous location motors divides environments into distinct categories based on the type of flammable material present. Class I locations contain vapors, liquids, or gases, while Class II locations involve combustible dust particles. Class III classifications apply to facilities where flammable fibers or lint create potential ignition hazards. Within these classes, subgroups A through G further define the specific characteristics of hazardous materials and the corresponding motor design requirements necessary for safe operation.

Division ratings provide additional specificity for motor selection, with Division 1 indicating locations where explosive elements are almost always present during normal operations. Division 2 classifications apply to areas where hazardous materials are contained within storage tanks or processing equipment, with potential exposure occurring only during equipment malfunction, spillage, or leakage events.

"Understanding the classification system is essential for specifying the correct motor for each application," Henson explained. "Our team works with customers to evaluate their specific environmental conditions and identify products that provide appropriate protection while maintaining operational efficiency."

Dietz Electric maintains inventory of flameproof motors in all NEMA frame sizes, with various mounting configurations available to accommodate different installation requirements. Single-phase motor options are also available upon customer request, extending the product line to applications where three-phase power is not accessible or practical.

The company has served industrial customers from its Milwaukee facility for decades, developing expertise in both motor supply and repair services. This combination of product availability and technical service capability positions Dietz Electric to support facilities throughout the motor lifecycle, from initial specification through ongoing maintenance requirements.

Certification from recognized testing organizations including FM Global, Underwriters Laboratories, and the Canadian Standards Association provides third-party verification that motors meet established safety standards. These certifications facilitate regulatory compliance for facilities subject to inspection by authorities having jurisdiction over hazardous location electrical installations.

Industrial facilities seeking flameproof motor solutions can access detailed product information and request quotations through the Dietz Electric flameproof motors page.

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Dietz Electric Co. Inc.

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