

Type X&Z Purging and Pressurization

Application

When the need for an electric motor is needed in Class I, Group B Atmospheres such as Acrolein (inhibited), Butadiene, ethylene Oxide, Hydrogen (or gases or vapors equivalent in hazard to Hydrogen Gas) or Propylene Oxide, a simple solution is to use a purged motor.

Basic Operation

Purged motors from Dietz Electric Co., Inc. are constructed to the requirements of U.L. Class I, group D, Division I. Then, they are modified so they can be purged using a Bebcos Type "X" purging system. The complete motor and purge system assembly complies with NFPA 496 type "X" which reduces the classification within the motor from Division 1 to non-hazardous.

Advantages

System includes an Electrical Power Control Unit (EPCU) that monitors the system operation and controls motor power. All start-up requirements must be satisfied before the EPCU allows power to the motor. After the motor is running, if the pressure is lost or reduced, the motor will be shut down by the EPCU. In addition, the form "C" contacts will close to initiate an alarm. These processes reduce the hazardous (Classified) area rating within the motor and terminal box in accordance with NEC-NFPA 70, Article 500, NFPA 496 and ISA ds 12.4.

User Profile

Dietz Electric is a full service company specializing in electric motors, drives and gear reducers. Our 70 years of experience provide customers with a vast range of services including custom design, modification and repair.

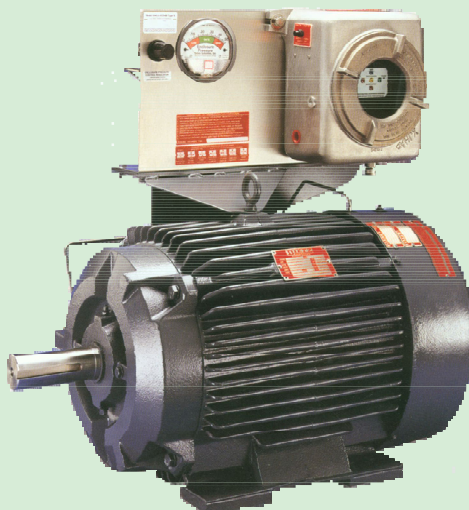


Case Study

Electric Motors

Reference to: EPS Division Technical Bulletin Model

SEE APPLICATIONS BELOW FOR SPECIFIC PRODUCT BULLETINS

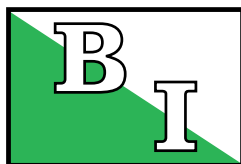


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Standard Model Applications

Model: 1001A-CI Type Z Style: LPS Rating Reduction: Div. 2 to Unclassified UL & FM Approvals: Cl. I, Div. 2 Group A-D Technical Bulletin: 1001A-R1.1	Model: 2001A-CI Type X Style: STD Rating Reduction: Div. 1 to Unclassified UL & FM Approvals: Cl. I, Div. 1 Group C&D
Model: 1002-CI Type Z Style: LPS Rating Reduction: Div. 2 to Unclassified UL & FM Approvals: Cl. I, Div. 2 Group A-D Technical Bulletin: 1002-R1.1	Model: 2002-CI Type X Style: FA Rating Reduction: Div. 1 to Unclassified UL & FM Approvals: Cl. I, Div. 1 Group C&D Technical Bulletin: 2002-R1.1



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