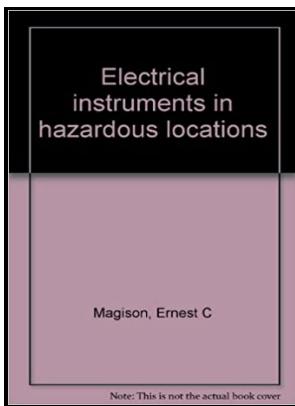


Electrical instruments in hazardous locations

Instrument Society of America - 9780876643761



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Electrical equipment — hazardous location classification system

Class III hazardous locations do not have material groups. Dust or other small particles suspended in air can.

Hazardous Area Classification

Conventional 3-phase, squirrel cage induction motors, with Type TEFC enclosures, work well in these applications. The division rating is simply the probability of combustible fibers being present. Coast Guard regulations have long recognized that certain spaces such as cargo pump rooms and cargo tanks are more hazardous than other Class I, Division 1 locations.

Installing Electrical Equipment in a Combustible Dust Location

Immersion of ignition-capable contacts in oil is known in the electrical industry as oil-immersed contacts.

Federal :: Electrical Equipment in Hazardous Locations

The regulations in this final rule expand the list of national and international explosion protection standards deemed acceptable for U.

Equipment for Class I Hazardous Locations

A wired interlock-timer prevents energizing the machine until the ventilation system has purged the enclosure with at least four volumes of gas ten volumes for motors. Hazardous classified locations may be found in occupancies such as, but not limited to, the following: aircraft hangars, gasoline dispensing and service stations, bulk storage plants for gasoline or other volatile flammable liquids, paint-finishing process plants, health care facilities, agricultural or other facilities where excessive combustible dusts may be present, marinas, boat yards, and petroleum and chemical processing plants. This material is provided for informational purposes only and does not provide any coverage or guarantee loss prevention.

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