

NEMA ENCLOSURE TYPE DESIGNATIONS

Type 1 Enclosure (General Purpose)

Type 1 enclosures are intended for indoor use primarily to provide a degree of protection against contact with the enclosed equipment where atmospheric conditions are normal.

Type 2 Enclosure (Driptight)

Type 2 enclosures are intended for indoor use primarily to provide a degree of protection against limited amounts of falling water and dirt.

Type 3 Enclosure (Dusttight, Raintight)

Type 3 enclosures are intended for outdoor use primarily to provide a degree of protection against windblown dust, rain, sleet, and external ice formation.

Type 3R Enclosure (Raintight)

Type 3R enclosures are intended for outdoor use primarily to provide a degree of protection against falling rain, sleet, and external ice formation.

Type 3S Enclosure (Dusttight, Raintight)

Type 3S enclosures are intended for outdoor use primarily to provide a degree of protection against windblown dust, rain, sleet, and provide for operation of external mechanisms when ice laden.

Type 4 Enclosure (Watertight, Dusttight)

Type 4 enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, and hose-directed water.

Type 4X Enclosure (Watertight, Dusttight & Corrosion-Resistant)

Type 4X enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, and hose-directed water.

Type 5 Enclosure (Dusttight)

Type 5 enclosures are intended for indoor use primarily to provide a degree of protection against dust and falling dirt.

Type 6 Enclosure (Submersible)

Type 6 enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against the entry of water during occasional temporary submersion at a limited depth.

Type 7 Enclosure (Hazardous Locations, Explosion-Proof)

Type 7 enclosures are for use indoors in locations classified as Class 1, Groups A, B, C or D, as defined in the *National Electrical Code*.

Type 8 Enclosure (Hazardous Locations, oil-immersed)

Type 8 enclosures are for indoor or outdoor use in locations classified as Class 1, Groups A, B, C or D, as defined in the *National Electrical Code*.

Type 9 Enclosure (Hazardous Locations, Dust-Ignition Proof)

Type 9 enclosures are for use in indoor locations classified as Class II, Groups E, F, or G, as defined in the *National Electrical Code*.

Type 10 Enclosure (Hazardous Locations, Explosion-Proof)

Type 10 enclosures are constructed to meet the applicable requirements of the Mine Safety and Health Administration.

Type 11 Enclosure (Corrosion Resistant, Driptight, oil-immersed)

Type 11 enclosures are intended for indoor use primarily to provide, by oil immersion, a degree of protection to enclosed equipment against the corrosive effects of liquids and gases.

Type 12 Enclosure (Industrial Use, Driptight, oil immersed)

Type 12 enclosures are intended for indoor use primarily to provide a degree of protection against dust, falling dirt, and dripping noncorrosive liquids.

Type 13 Enclosure (Oiltight, Dusttight)

Type 13 enclosures are intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil, and noncorrosive coolant.

Source: National Electrical Manufacturers Association (NEMA) Standard 1-10-1979 Publication No. 250

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