



NEMA Type Enclosures for use in Non-Hazardous Locations

The following table is based on NEMA 250-1997

Number	Intended Use and Description
1	Indoor use primarily to provide a degree of protection against contact with the enclosed equipment and against a limited amount of falling dirt.
2	Indoor use to provide a degree of protection against limited amounts of falling water and dirt.
3	Outdoor use to provide a degree of protection against wind-blown dust, rain, and sleet; undamaged by the formation of ice on the enclosure.
3R	Outdoor use to provide a degree of protection against falling rain and sleet; undamaged by the formation of ice on the enclosure.
3S	Outdoor use to provide a degree of protection against windblown dust, rain, and sleet; external mechanisms remain operable while ice laden.
4	Indoor or outdoor use to provide a degree of protection against splashing water, windblown dust and rain, and hose-directed water; undamaged by the formation of ice on the enclosure.
4X	Indoor or outdoor use to provide a degree of protection against splashing water, windblown dust and rain, and hose-directed water; undamaged by the formation if ice on the enclosure; resists corrosion.
6	Indoor or outdoor use to provide a degree of protection against the entry of water during temporary submersion at a limited depth; undamaged by the formation of ice on the enclosure.
6P	Indoor or outdoor use to provide a degree of protection against the entry of water during prolonged submersion at a limited depth.
11	Indoor use to provide by oil immersion a degree of protection of the enclosed equipment against the corrosive effects of corrosive liquids and gases.
12, 12K	Indoor use to provide by oil immersion a degree of protection against dust, falling dirt, and dripping non-corrosive liquids.
13	Indoor use to provide by oil immersion a degree of protection against dust and spraying water, oil, and non-corrosive coolants.

NEMA Type Enclosures for use in Hazardous Locations

The following table is based on NEMA 250-1997

Number	Intended Use and Description
7	Enclosures constructed for indoor use in hazardous locations classified as Class I, Division 1, Groups A, B, C, or D as defined in NFPA 70.
8	Enclosures constructed for either indoor or outdoor use in hazardous locations classified as Class I, Division 1, Groups A, B, C, and D as defined in NFPA 70.
9	Enclosures constructed for indoor use in hazardous locations classified as Class II, Division 1, Groups E, F, and G as defined in NFPA 70.
10	Enclosures constructed to meet the requirements of the Mine Safety and Health Administration, 30 CFR, part 18.

Notes: In hazardous locations, when completely and properly installed and maintained, Type 7 and 10 enclosures are designed to contain an internal explosion without causing an external hazard. Type 8 enclosures are designed to prevent combustion through the use of oil-immersed equipment. Type 9 enclosures are designed to prevent the ignition of combustible dust.