



## NEMA Enclosure Types Non-Hazardous Locations

<b>Type 1</b>	Indoor	Provides degree of protection to personal against incidental contact with the enclosed equipment and to provide a degree of protection against falling dirt.
<b>Type 2</b>	Indoor	Provides degree of protection to personal against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt and to provide a degree of protection against dripping and light splashing of liquids.
<b>Type 3</b>	Indoor Outdoor	Provides degree of protection to personal against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow and windblown dust; and that will be undamaged by the external formation of ice on the enclosure.
<b>Type 3R</b>	Indoor Outdoor	Provides degree of protection to personal against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, and snow; and that will be undamaged by the external formation of ice on the enclosure.
<b>Type 3S</b>	Indoor Outdoor	Provides degree of protection to personal against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow and windblown dust; and in which external mechanism(s) remain operable when ice laden.
<b>Type 4</b>	Indoor Outdoor	Provides degree of protection to personal against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow and windblown dust and hose-directed water; and that will be undamaged by the external formation of ice on the enclosure.
<b>Type 4X</b>	Indoor Outdoor	Provides degree of protection to personal against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow and windblown dust and hose-directed water and corrosion; and that will be undamaged by the external formation of ice on the enclosure.
<b>Type 5</b>	Indoor	Provides degree of protection to personal against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against settling airborne dust, lint, fibers and flyings; and to provide a degree of protection against dripping and light splashing of liquids.
<b>Type 6</b>	Indoor Outdoor	Provides degree of protection to personal against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against hose-directed water and the entry of water during occasional temporary submission at a limited depth; and that will be undamaged by the external formation of ice on the enclosure.
<b>Type 6P</b>	Indoor Outdoor	Provides degree of protection to personal against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against hose-directed water and the entry of water during occasional prolonged submission at a limited depth; and that will be undamaged by the external formation of ice on the enclosure.
<b>Type 12</b>	Indoor	(Without knockouts) Provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, fibers and flyings; and against dripping and light splashing of liquids.
<b>Type 12K</b>	Indoor	(With knockouts) Provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, fibers and flying; and against dripping and light splashing of liquids.
<b>Type 13</b>	Indoor	Provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, fibers; and flying; and against the spraying, splashing and seepage of water, oil and noncorrosive materials.

For more detailed and complete information, consult NEMA Standard Publication 250 – 1997. “Enclosures for Electrical Equipment (100 Volts Maximum)”

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