

NEMA RATINGS CHART



NEMA RATING	DEFINITION
1	Indoor general-purpose. Protects against dust, light, and indirect splashing but is not dust-tight. Primarily prevents contact with live parts and used indoors and under normal atmospheric conditions.
2	Indoor similar to Type 1 but "Drip-Tight". Used to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (dripping and light splashing)
3	Indoor or Outdoor Weather-Resistant; Protects against falling dirt, wind blow dust, & weather hazards such as rain, snow, sleet, & the external formation of ice.
3R	Same as Type 3, but OMITs projection against windblown dust.
3S	Same as Type 3, but remains operational when ice laden.
3X	Same as Type 3, but provides additional level of protection against corrosion
3RX	Same as Type 3R, but provides additional level of protection against corrosion
3SX	Same as Type 3S, but provides additional level of protection against corrosion
4	Indoor or Outdoor Water-Tight. Protects against falling dirt, wind blow dust, & weather hazards such as rain, snow, sleet, the external formation of ice & splashing water, & hose directed water
4X	Indoor or Outdoor Water-Tight with corrosion resistance. Protects against falling dirt, wind blow dust, and weather hazards such as rain, snow, sleet, the external formation of ice, splashing water, hose directed water, and an additional level of protection against corrosion
5	Indoor Dust-Tight. Protects against falling dirt & settling airborne dust, lint, fibers, & flyings. Also provides a degree of protection with respect to harmful effects on the equipment due to the ingress of water (dripping & light splashing)
6	Indoor or Outdoor. Temporary Water-Submersion
6P	Indoor or Outdoor. Prolonged Water-Submersion
7	Indoor Hazardous location conditions. Class I, Groups A, B, C and D.
8	Indoor or Outdoor Hazardous location conditions. Class I, Groups A, B, C & D.
9	Indoor or Outdoor Hazardous location conditions. Class II, Groups E, F, or G
10	Meets Mine Safety and Health Administration (MSHA) requirements
11	General-purpose. Provides protection against the corrosive effects of liquids and gases
12	Indoor enclosures (without Knockouts). Protects against falling dirt, circulating dust, fibers, flyings and the ingress of water (dripping and light splashing), as well against the dripping of Non-Corrosive liquids
12K	Indoor enclosures (with Knockouts). Protects against falling dirt, circulating dust, fibers, flyings and the ingress of water (dripping and light splashing), as well against the dripping of Non-Corrosive liquids
13	Indoor. Protects against falling dirt, circulating dust, fibers, flyings and the ingress of water (dripping and light splashing), as well against the spraying, splashing, and seepage of oil and non-corrosive coolants