



# NEMA / UL-50 TYPE RATINGS

**Definition:** An Enclosure is a surrounding case constructed to provide a degree of protection against incidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions.

**Type 1** – Intended for indoor use primarily to provide a degree of protection against limited amounts of falling dirt.

**Type 2** – Intended for indoor use primarily to provide a degree of protection against limited amounts of falling water and dirt.

**Type 3** – Intended for outdoor use primarily to provide a degree of protection against rain, sleet, wind blown dust, and damage from external ice formation.

**Type 3R** – Intended for outdoor use primarily to provide a degree of protection against rain, sleet, and damage from external ice formation.

**Type 3S** – Intended for use primarily to provide a degree of protection against rain, sleet, windblown dust and to provide for operation of external mechanisms when ice laden.

**Type 4** – Intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation.

**Type 4X** – Intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation.

**Type 5** – Intended for indoor use primarily to provide a degree of protection against settling airborne dust, falling dirt, and dripping non-corrosive liquids.

**Type 6** – Intended for indoor or outdoor use primarily to provide a degree of protection against hose-directed water, and the entry of water during occasional temporary submersion at a limited depth and damage from external ice formation.

**Type 6P** – Intended for indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during prolonged submersion at a limited depth and damage from external ice formation.

**Type 12/12K** – Intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids.

**Type 13** – Intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil, and noncorrosive coolants.

**Marine Use** – For use in or around marine and coastal environments to provide a degree of protection from corrosion, rain, dust, splashing and hose-directed water, and damage from external ice formation.