

NEMA & UL RATINGS CHART

NEMA & UL are standard writing organizations commonly recognized in the North American continent. The following ratings are based on similar application descriptions and expected performance. UL requires enclosure testing by qualified evaluators. The Milbank Test Lab is certified in the UL Client Test Data Program. They also send site inspectors to check manufacturer adherence to prescribed manufacturing methods and material specifications. NEMA does not require independent testing, which leaves compliance totally up to the manufacturer.

RATING	NEMA National Electrical Manufacturers Association (NEMA Standard 250)	Underwriters Laboratories Inc. (UL 50)	Canadian Standards® CAN / CSA – C22.2 No. 94-M91
TYPE 1	Enclousures are intended for indoor use primarily to provide a degree of protection against limited amounts of falling dirt. (NEMA Standard 7-15-1991)	Indoor use primarily to provide a degree of protection against limited amounts of falling dirt.	General purpose enclosure. Protects against accidental contact with live parts.
ТҮРЕ З	Enclousures are intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust, and damage from external ice formation. (NEMA Standard 7-15-1991)	Outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust, and damage from external ice formation.	An Enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against rain, sleet, and windblown dust; undamaged by the external formation of ice on the enclosure.
TYPE 3R	Enclousures are intended for outdoor use primarily to provide a degree of protection against rain, sleet, and damage from external ice formation. (NEMA Standard 7-15-1991)	Outdoor use primarily to provide a degree of protection against rain, sleet, and damage from external ice formation.	An Enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against rain, snow, and windblown dust, splashing and hose-directed water; undamaged by the external formation of ice on the enclosure.
TYPE 4	Enclosures are intended for indoor and 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. (NEMA Standard 1-10-1979)	Indoor and 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.	An Enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against rain, snow, and windblown dust, splashing and hose-directed water; undamaged by the external formation of ice on the enclosure.
TYPE 4X	Enclosures are intended for indoor and 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. (NEMA Standard 1-10-1979)	Indoor and 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.	An Enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against rain, snow, and windblown dust, splashing and hose-directed water; undamaged by the external formation of ice on the enclosure; resists corrosion.



RATING	NEMA National Electrical Manufacturers Association (NEMA Standard 250)	Underwriters Laboratories Inc. (UL 50)	Canadian Standards [®] CAN / CSA – C22.2 No. 94-M91
TYPE 12	Enclosures are intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping noncorrosive liquids. (NEMA Standard 7-15-1991)	Indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping noncorrosive liquids.	An Enclosure for indoor use, constructed so as to provide a degree of protection against circulating dust, lint, fibers, and flyings; dripping and light splashing of noncorrosive liquids; not provided with knockouts.
TYPE 13	Enclosures are intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil, and noncorrosive coolant.	Indoor use primarily to provide a degree of protection against lint, dust, seepage, external condensation, and spraying of water, oil, and noncorrosive liquids.	Indoor use; provides a degree of protection against circulating dust, lint, fibers, and flyings; seepage and spraying of noncorrosive liquids; including oils and coolants.
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