

NEMA CLASSIFICATIONS

Spring City Enclosure Designations	NEMA CLASSIFICATIONS						
	Type 1 Type 2 Type 5	Type 3 Type 3R Type 3S	Type 4 Type 4X	Type 6	Type 6P	Type 9 Class II Group E, F + G	Type 12 Type 13
S & S-A PAGE 3	X	X	X				X
OC & OC-A PAGE 5	X	X	X				X
ER & ER-A PAGE 6	X	X	X				X
FF & FF-A PAGE 7	X	X	X	X			X
IR & IR-A PAGE 8	X	X	X				X
HC & HC-A PAGE 9	X	X	X				X
HF & HF-A PAGE 11	X	X	X	X	WHEN SPECIFIED		X
SW PAGE 12	X						
TC PAGE 13	X						X
DH & DH-A PAGE 14	X	X	X			X	X

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- Type 1- GENERAL PURPOSE- INDOOR-** “Enclosures constructed for indoor use to provide a degree of protection to personnel against access to hazardous parts and to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt).
- Type 2- DRIPPROOF- INDOOR-** Enclosures constructed for indoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt); and to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (dripping and light splashing).
- Type 3- DUSTTIGHT, RAIN TIGHT AND SLEET-RESISTANT (ICE RESISTANT)- OUTDOOR-** Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); and to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); and that will be undamaged by the external formation of ice on the enclosure.
- Type 3R- RAINPROOF AND SLEET-RESISTANT (ICE RESISTANT)- OUTDOOR-** Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt); and to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); and that will be undamaged by the external formation of ice on the enclosure.
- Type 3S- DUSTTIGHT, RAIN TIGHT AND SLEET-PROOF (ICEPROOF)- OUTDOOR-** Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); and to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); and for which the external mechanism(s) remain operable when ice laden.
- Type 4- WATERTIGHT AND DUSTTIGHT- INDOOR AND OUTDOOR-** Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); and to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow, splashing water, and hose directed water); and that will be undamaged by the external formation of ice on the enclosure.
- Type 4X-WATERTIGHT, DUSTTIGHT AND CORROSION-RESISTANT- INDOOR AND OUTDOOR-** Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); and to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow, splashing water, and hose directed water); that provides an increased level of protection against corrosion; and that will be undamaged by the external formation of ice on the enclosure.
- Type 5- DUSTTIGHT- INDOOR-** Enclosures constructed for indoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and settling airborne dust, lint, fibers and flyings); and to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (dripping and light splashing).
- Type 6- SUBMERSIBLE, WATERTIGHT, DUSTTIGHT AND SLEET RESISTANT (ICE RESISTANT)- INDOOR AND OUTDOOR-** Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (hose directed water and the entry of water during occasional temporary submersion at a limited depth); and that will be undamaged by the external formation of ice on the enclosure.
- Type 6P- SUBMERSIBLE, WATERTIGHT, DUSTTIGHT AND SLEET RESISTANT (ICE RESISTANT)- INDOOR AND OUTDOOR-** Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (hose directed water and the entry of water during prolonged submersion at a limited depth); that provides an increased level of protection against corrosion and that will be undamaged by the external formation of ice on the enclosure.
- Type 9- CLASS II, GROUPS E AND G HAZARDOUS LOCATIONS – INDOOR-** Meet the application requirements of the National Electric Code of Class II, Groups E, F and G hazardous dust locations. Designed in accordance with UL standard 698. These enclosures shall prevent the ingress of explosive amounts of hazardous dust.
- Type 12- INDUSTRIAL USE- DUSTTIGHT AND DRIPTIGHT- INDOOR-** Enclosures constructed (with knockouts) for indoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and circulating dust, lint, fibers, and flyings); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (dripping and light splashing) and to provide a degree of protection against light splashing and seepage of oil and non-corrosive coolants.
- Type 13- OILTIGHT AND DUSTTIGHT- INDOOR-** Enclosures constructed for indoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and circulating dust, lint, fibers, and flyings); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (dripping and light splashing) and to provide a degree of protection against the spraying, splashing, and seepage of oil and non-corrosive coolants.”¹

¹National Electrical Manufacturers Association, NEMA 250 Enclosures for Electrical Equipment (1000 Volts Maximum) (NEMA, 2008) 6-8.