

NEMA Ratings Chart

What are NEMA Ratings?

NEMA ratings are standards that are useful in defining the types of environments in which an electrical enclosure can be used. The NEMA rating system is defined by the National Electrical Manufacturer Association, and frequently signifies a fixed enclosure's ability to withstand certain environmental conditions.

| Type of Enclosure | 1 | 2 | 4 | 4X | 5 | 6 | 6P | 12 | 13 |
|---|---|---|---|----|---|---|----|----|----|
| Access to hazardous part | X | X | X | X | X | X | X | X | X |
| Ingress of solid foreign objects (falling dirt) | X | X | X | X | X | X | X | X | X |
| Ingress of water (dripping and light splashing) | | X | X | X | X | X | X | X | X |
| Ingress of solid foreign objects (circulating dust, lint, or fibres) | | | X | X | | X | X | X | X |
| Ingress of solid foreign objects (settling airborne dust, lint or fibres) | | | X | X | X | X | X | X | X |
| Ingress of water (hose down and splashing) | | | X | X | | X | X | | |
| Oil and coolant seepage | | | | | | | | X | X |
| Oil and cooling spraying and splashing | | | | | | | | | X |
| Corrosive agents | | | | X | | | X | | |
| Ingress of water (temporary submersion) | | | | | | | X | | |
| Ingress of water (prolonged submersion) | | | | | | | X | | |