## EEMAC environmental ratings

Refer to EEMAC Standards Publication for more information regarding

Individual EEMAC product Standards Publications or third party certification standards may contain additional requirements for product
applications, features and design tests. testing and performance.

## Introduction

An enclosure is a surrounding case constructed to provide a degree of protection to personnel against accidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions.

A brief description of the more common types of enclosures used by the electrical industry relating to their environmental capabilities follows.


## Type 1

Enclosures are intended for indoor use primarily to provide a degree of protection against limited amounts of falling dirt.


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


Type 4
Enclosures are 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
Enclosures are 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 12
Enclosures are intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping noncorrosive liquids.


Type 13
Enclosures are intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil and noncorrosive coolant.


IP ratings
indicate the degree of protection against dust, liquids and impacts. The IP degrees of protection are defined by the French standard NFC 20-010. To rate a device's degrees of protection, the letters IP are followed by up to three numbers. These numbers are defined as follows:
first number
protection against solid objects

