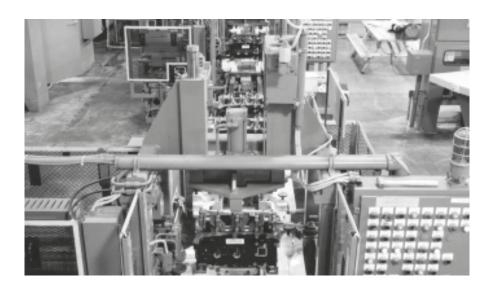


Standards CE and IEC Classifications



CE

The CE Mark is a European Union (EU) compliance symbol and acronym for Conformité Européenne. The CE Mark indicates that a product complies with all European directives and essential harmonized standards for health, safety, environment, and



consumer protection that may apply to that product. In addition, the CE Mark promotes free trade movement from outside and within the EU.

For industrial control equipment, the CE Mark is not intended to be applied to empty enclosures because such enclosures are inactive components of a final assembly. The responsibility of ensuring compliance with all applicable EU directives and harmonized standards belongs with the final equipment manufacturer.

Hoffman enclosures are designed in compliance with European standards and are eligible to receive a Manufacturer's Declaration of Conformity. The certificate assists the final equipment manufacturer in obtaining the CE Mark. Contact Applications Engineering at (763) 422-2175 for further information.

Hoffman enclosures meet the requirements of the applicable European standards specified below.

Applicable European Directives

73/23/EEC Low Voltage Directive for Electrical Equipment within Certain Voltage Limits

89/336/EEC EMC Directive Relating to Electromagnetic Compatibility

98/37/EC Machinery Directive

Note: The EMC Directive is only secondarily applicable since an empty enclosure does not produce electromagnetic interference.

Applicable International Standards

IEC 60529 (IEC529) Degrees of Protection Provided by Enclosures

IEC 60204 (IEC204) Electrical Equipment of Industrial Machines

International Standards IP Protection Classification

IEC Publication 60529 Classification of Degrees of Protection by Enclosures provides a system for specifying enclosures of electrical equipment on the basis of the degree of protection required. IEC 60529 does not



specify degrees of protection against risk of explosions or conditions such as moisture (produced, for example, by condensation), corrosive vapors, fungus, or vermin. NEMA Standards

Publication 250 does test for environmental conditions such as corrosion, rust, icing, oil, and coolants. For this reason, and because the tests and evaluations for other characteristics are not identical, the IEC enclosure classification designations cannot be exactly equated with NEMA enclosure Type numbers.

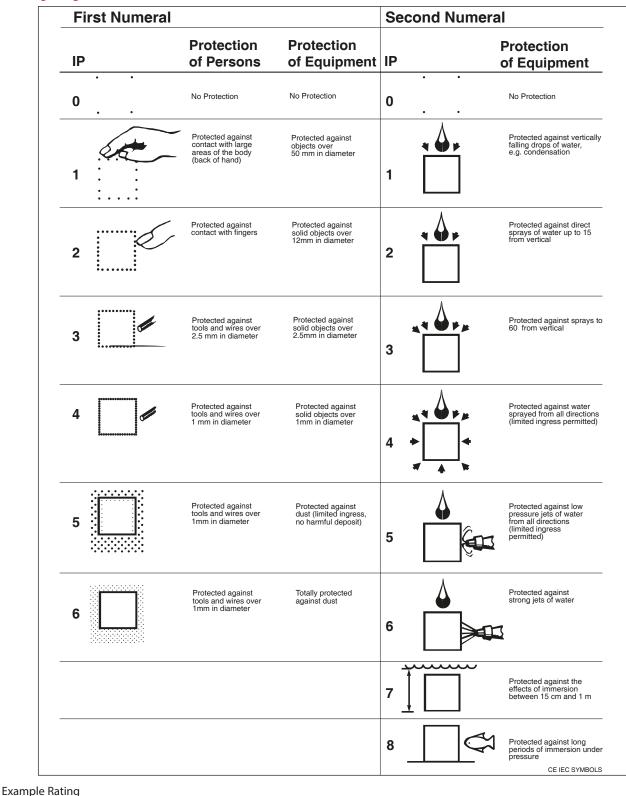
The table on page A.07 provides a crossreference from NEMA enclosure Type numbers to IEC enclosure classification designations. This cross-reference is a Hoffman approximation based on the most current available information on enclosure test performance and is not sanctioned by NEMA, IEC, VDE, or any affiliated agency.

To use the table on page A.07, first find the appropriate NEMA rating along the vertical axis and then read across the horizontal axis for the corresponding IP rating. Do not use this table to convert IEC classification designations to NEMA Type numbers.



Standards CE and IEC Classifications

IP Rating Categories



(An enclosure with this designation provies protection against touch with a finger and penetration of solid objects greater than $12 \rm mm$ and against sprauying water.)

A

Technical Information