

Conformity with European Product Requirements- Molded Case Circuit Breakers & Accessories

In order to sell equipment into the European Union (EU) or European Economic Area (EEA), many of our OEM customers must comply with the CE marking requirements of the Machinery Directive which became effective January 1, 1995. As part of this directive, machinery manufacturers must build their equipment to meet standards adopted by the European Committee for Electro-technical Standardization. These are either Euro Norm (EN) standards or IEC standards if no EN standard exists. The machinery is then CE marked.

In addition, individual devices that fall under the Electromagnetic Compatibility (EMC) Directive or Low Voltage (LV) Directive must also meet "CE" marking requirements. The EMC Directive became mandatory January 1, 1996, and applies to all apparatus that could cause electromagnetic disturbances or could be affected by such disturbances. CE marking to the Low Voltage Directive became mandatory January 1, 1997, and applies to any equipment designed for use with a voltage rating between 50 and 1,000 volts AC or 75 and 1,500 volts DC. The product standard for the LV Directive can also include tests for electrical emissions and immunity. CE marks should not be applied to breaker accessories which do not need to meet either the EMC or LV Directives. An example is a handle mechanism. For further information on the new harmonized European standards, customers should refer to the NEMA publication "Electrical Product Acceptance in Europe: NEMA Guide to Europe's New Approach Directives and CE Marking".

It is Eaton's position that circuit breakers bearing the CE Mark must comply with the LV Directive. In addition, electronic trip circuit breakers must comply with the EMC Directive by meeting the electrical emission and immunity requirements of EN 60 947-1 Amendment 11 and EN 947-2 Appendix F.1995. Eaton World Series C circuit breakers and Series G circuit breakers are designed specifically to meet the IEC 947-2 and EN 60 947-2 standards for molded case circuit breakers. The domestic L through R Frame Series C circuit breakers are designed to meet NEMA and UL standards, but also meet the IEC 947-2 and EN 60947-2 standards. Series C circuit breakers meeting the LV Directive and EMC Directive are now available with CE marking. As part of the CE marking requirements, Eaton has prepared Declarations of Conformity (DOC's) which can be used to verify compliance with the CE marking requirements. The DOC contains a description of the product and references the harmonized standards or specifications to which conformity is declared. DOC's for Series C Product will be continuously updated and made available on Eaton's certificate of compliance web page. For further support please contact Eaton's Technical Resource Center at 877-386-2273 Option 2.