

Documentation in line with LVD

Documentation requirements in line with the Low Voltage Directive 2006/95/EC

Documentation in line with the low-voltage directive

- Process for the CE – Declaration of Conformity and marking in line with LVD 2006/95/EC
 1. Method
 2. Declaration of Conformity
 3. CE marking
- Example for the Declaration of Conformity and the CE marking



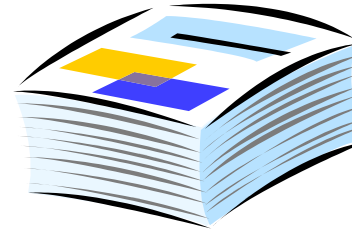
Path to CE marking



Conformity assessment procedure

Conformity must be assessed by the manufacturer or someone authorized by them and based within the Community. The conformity assessment procedure incorporates 3 main steps.

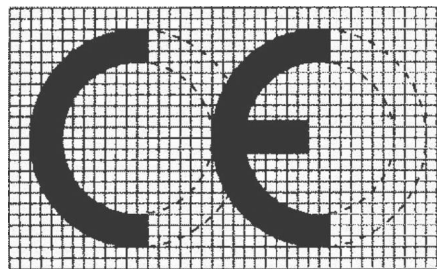
1. Compiling the technical documentation



2. Declaration of Conformity

Konformitätserklärung <i>Declaration of Conformity</i>	
Nr. No.	EK 0001.02 de
Siemens AG / IBT LVDS / Leipzig	
Wir We	(Name des Herstellers / manufacturer's name)
Südstrasse 74 D-04178 Leipzig	
(Anschrift / address)	
erklären in alleiniger Verantwortung, daß das (die) Produkt(e) declare under our sole responsibility that the product(s)	
SIVACON S4 Standardisiertes Bausteinsystem für den Bau von Niederspannungs-Schaltgerätekombinationen SIVACON S4 Standardized module system for assembly of low-voltage switchgear and controlgear assemblies	
(Bezeichnung, Typ oder Modell / name, type or model) mit folgenden normativen Dokumenten übereinstimmt / übereinstimmt	

3. CE marking



These obligations (methods) do not apply to the importer, who will generally have no detailed knowledge regarding which directives have been taken into account or which technical specifications have been applied.

1. Compiling the technical documentation

Scope (corresponding to Annex IV of the LVD – internal production monitoring)

The technical documentation incorporates the following:

- General description of the electrical switching devices and components
- Design and production plans and circuit diagrams showing how components, modules, and circuits, etc. are arranged
- Descriptions and explanations to help people understand these plans and circuit diagrams and operate the electrical switching devices and components (Objective: third-parties must be able to understand)
- A list of standards applied (in full or in part) or, if no standards have been applied, a description of the means by which the safety requirements of the directive have been satisfied
- The results of the design calculations, tests performed, etc.
- **Test reports** (available test reports from the manufacturer or third parties)

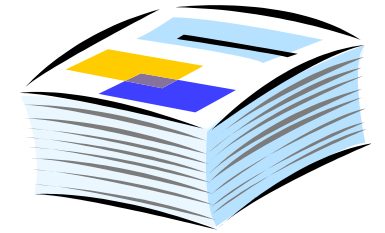
Before a product is brought into circulation the manufacturer needs to compile the various technical documentation
→ **verification that the products satisfies the directive.**

1. Compiling the technical documentation

Retention

Retention of technical documentation:

- For *at least 10 years* by the manufacturer or authorized party
- Readily accessible (e.g. in electronic form too)
- Importer or party bringing product into circulation is responsible for documentation retention if the manufacturer or their authorized party is not based within the Community.
- Must be made available within a reasonable period of time if requested by the authorities (e.g. within 2 weeks)



2. Declaration of Conformity Retention

The Declaration of Conformity must be made available and retained by the

- **Manufacturer** or
 - someone **authorized by them**
- } Based with the Community (EEA)



If neither are based within the Community, a copy needs to be retained by

- The **importer** or
- For the **party responsible for bringing the product into circulation**

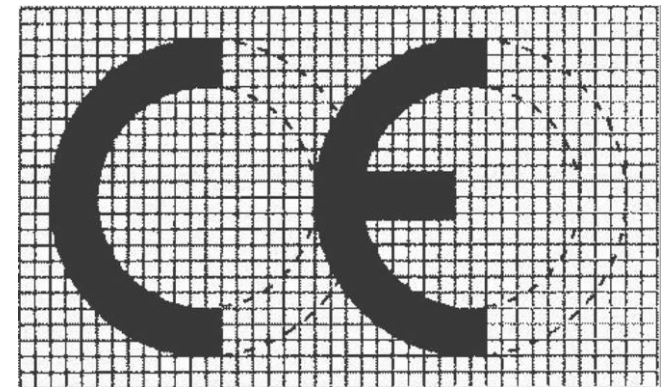
The authorities responsible for supervising the market can request a copy of the Declaration of Conformity at any time if necessary.

The Declaration of Conformity must be drafted in at least one of the official European languages.

Official languages within the EU: 23 Working languages: 3 (English, French, German)

3. CE marking

- **Marking** of electrical switching devices and components with CE marking before it is brought into circulation by **the manufacturer** only or someone **authorized** by them and based within the Community
- **CE marking applied to the electrical switching devices and components** themselves or, if this is not possible, to the packaging, the user instructions, or the warranty certificate
- Marking must be clearly visible, legible, and permanent.
- **Minimum height 5mm** with **proportions** retained if enlarged

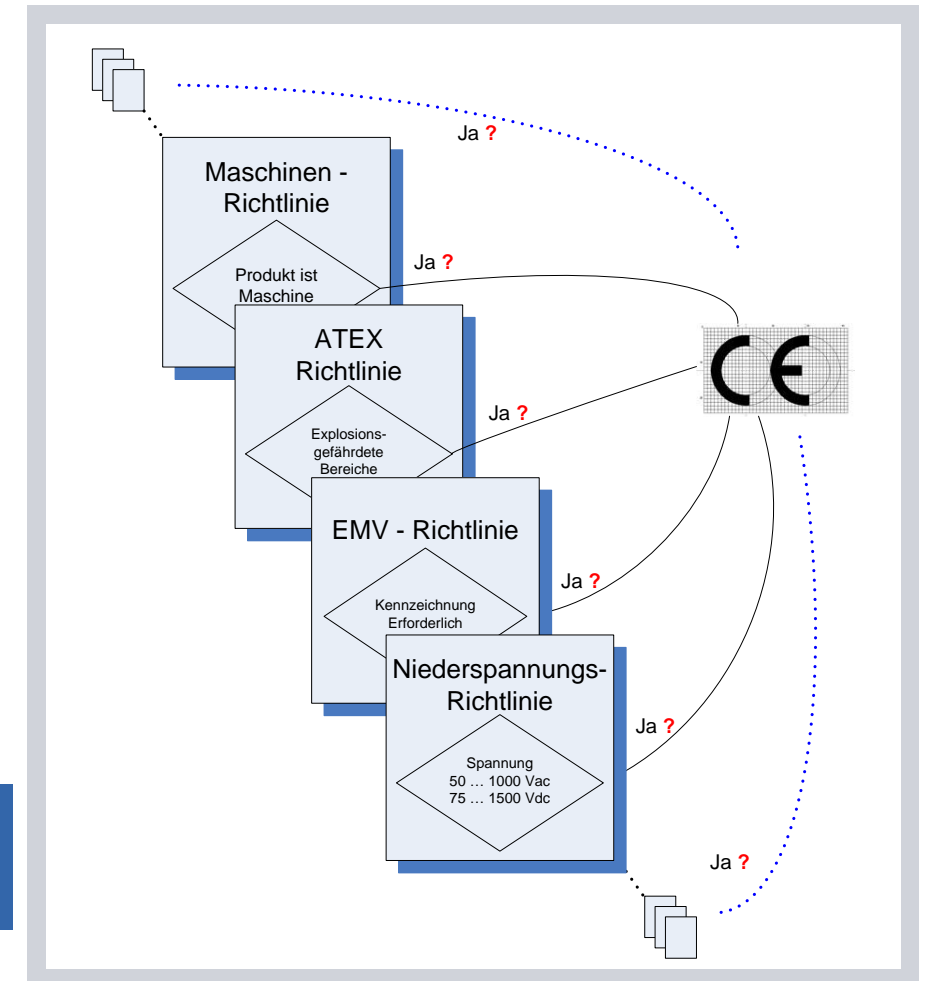


3. CE marking

The **CE marking** indicates that an electrical switching device or component:

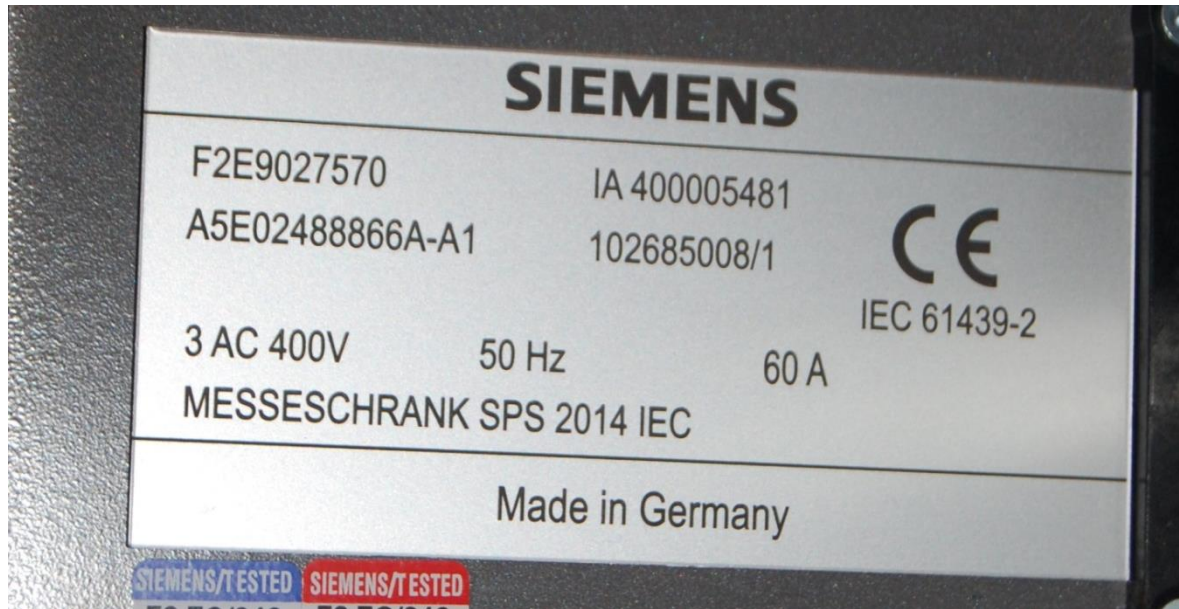
- **Satisfies the main requirements**
- Has been through the conformity assessment process as defined **in the Low Voltage Directive and the other directives applicable to the product**
- And whose **free movement within the EEA** may only be limited/denied if there are well grounded suspicions (presumption of effectiveness)

It is forbidden to apply markings whose meaning or design may be confused with the meaning or design of CE marking.



Examples of the declaration of conformity, rating plate, and the CE marking

- Declaration of conformity for a SIVACON power distribution board
- Example rating plate of a low-voltage switchgear and controlgear assembly – according to IEC/EN 61439-2



Any questions?

Note / Exclusion of liability

The typical circuit diagrams and interpretations of the standard are not binding and do not claim to be complete regarding configuration, equipment or any other eventuality. They do not represent any client-specific solutions and are only intended to offer assistance for typical tasks.

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