



C2/113

**Homologation procedure for MV switchgear
according to the technical prescription C2/112**

Part 8

**Procedure for the homologation of a combination
circuit breaker - self-powered or dual powered protection relay**

(edition 1 - 11.2024)

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1. Introduction

1.1. Synergrid lists of homologated materials for use on Belgian public grids

Via the procedure C2/113-1, switch gear is homologated for use on Belgian territory. With this homologation procedure, circuit breakers are homologated in combination with a specific self-powered or dual powered protection relay.

If another self-powered or dual powered protection relay has to be used in combination with an already homologated circuit breaker, for instance if the original self-powered or dual powered protection relay is no longer in production, the protection chain (circuit breaker with new self-powered or dual powered protection relay) has to be controlled. The present document describes how this is done.

When the procedure is positively ended, the new combination will be mentioned on the list C2/113-0.

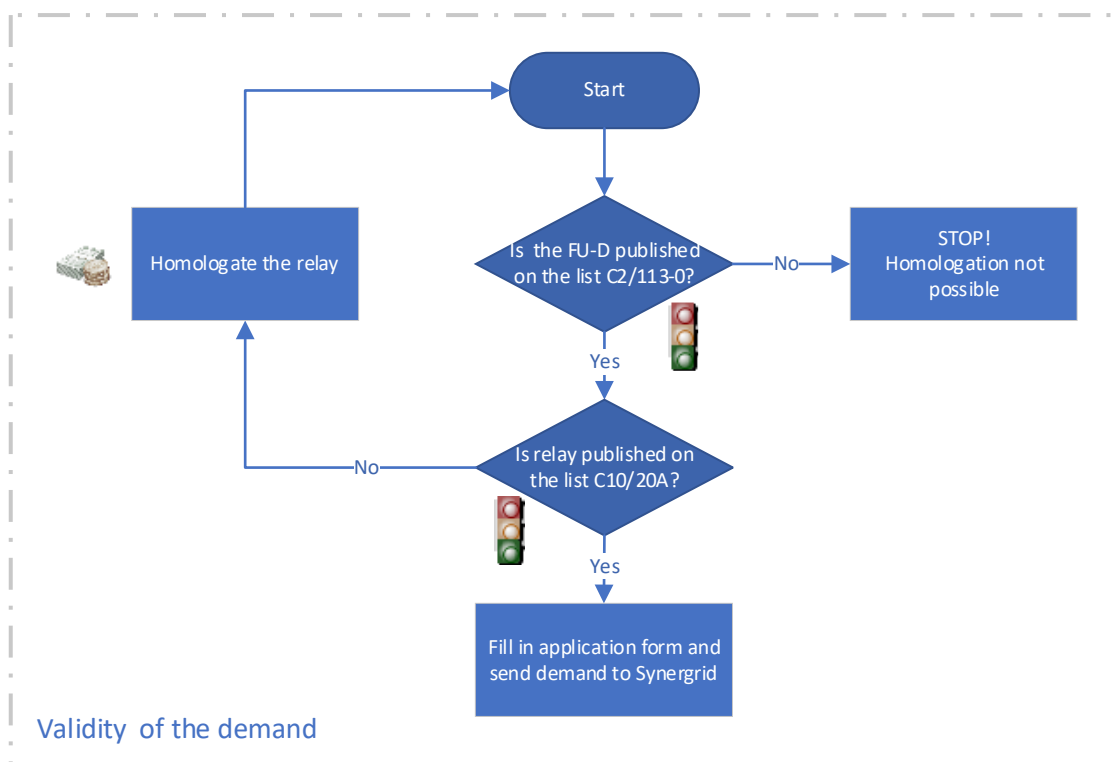
The lists are available on the website of Synergrid www.synergrid.be.

1.2. Validity of the application

The procedure is only valid if both conditions mentioned below are fulfilled:

- The circuit breaker is published on the list C/113-0; the function is part of a homologated switch gear family.
- The self-powered or dual powered protection relay is homologated and published on the list C10/20A.

Before an application can be made, the homologation procedure of the (new) self-powered or dual powered protection relay must be finished. The concerned documents and procedure can be found on the website of Synergrid.



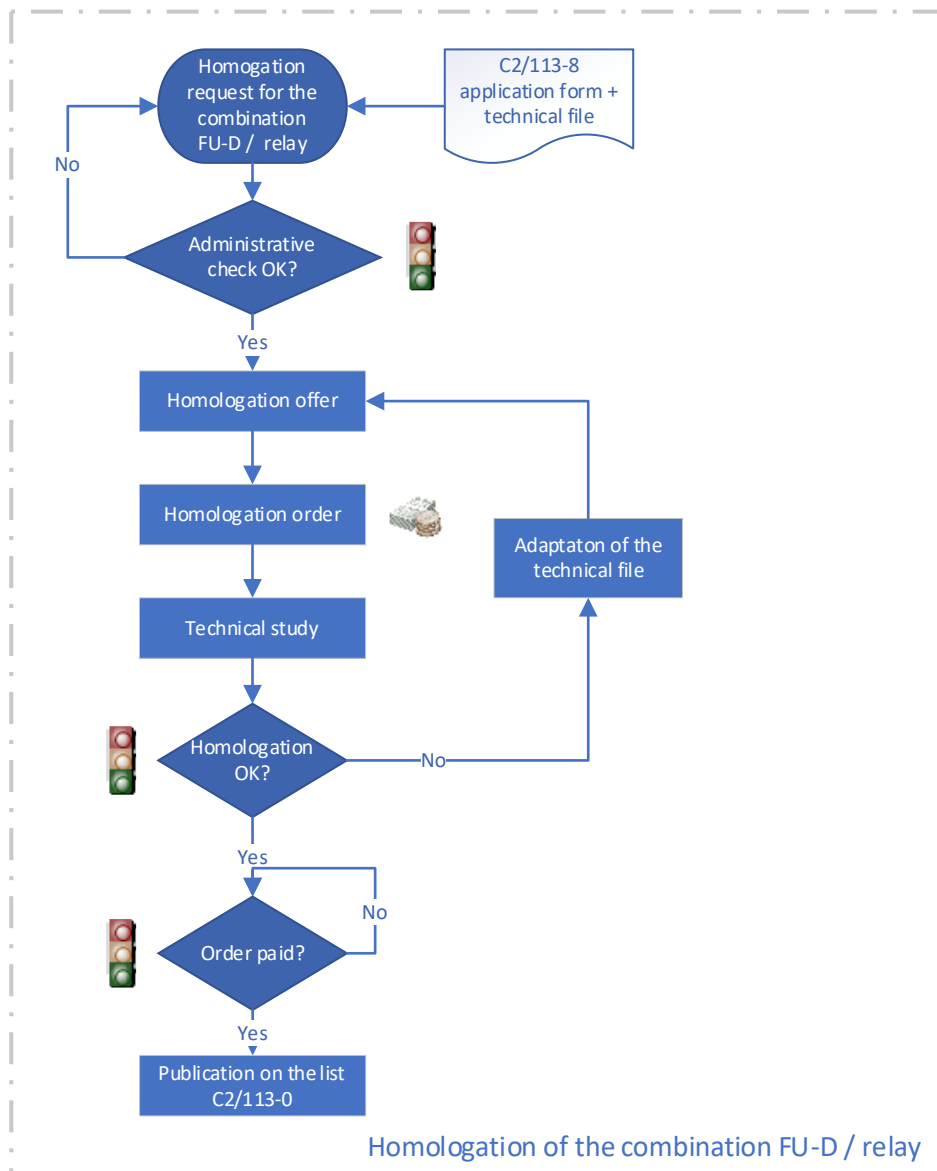
1.3. Languages

The following languages are acceptable. Documents in other languages than stated below are not valid and will not be evaluated.

Request for pre-classification and homologation	Dutch, French, English
Filled-in Synergrid documents C2/113-3 & C2/113-8	Dutch, French, English
Test reports, technical brochures, ...	Dutch, French, English (German)
Communication with Synergrid, Synergrid designed consultants, or the lead.	Dutch, French, English

1.4. Common Process Chart

An overview of the procedure is given in the process chart below. Each step is explained in the following chapters.



2. Homologation of the combination (list C2/113-0)

2.1. Request for homologation

If both conditions of §1.2 are met, a homologation request can be made.

The applicant must submit an official written request for homologation to Synergrid, by email or by letter.

In this request the applicant must clearly state the following information:

- Contact details of the Single Point of Contact
- Contact details of the manufacturer (switchgear and self-powered or dual powered protection relay)
- Contact details of the supplier (switchgear and the self-powered or dual powered protection relay)
- Brand and type(s) of the circuit breaker and the self-powered or dual powered protection relay
- Complete technical file for the homologation study, based on the documents of the homologation procedure C2/113-3.

2.2. Technical file C2/113-3

A technical file must be submitted following the instructions below:

- using the conformity assessment guide (C2/113-3 xlsx) that is part of C2/113-3 and consists of the technical and normative requirements for the switchgear; only folder W of this file must be filled in and this on the tab of the circuit breaker.
- composed according to the instructions in C2/113-3 (pdf - § 5.11).

The technical dossier shall be submitted in electronic form by File transfer or can be uploaded in SharePoint (after Synergrid has granted access to the applicant).

The technical dossier needs to be certified (complete name, signature and company stamp) by a representative of the applicant, who can legally bind the applicant.

Only a complete file will be accepted. Synergrid will not start the homologation procedure, and thus will not send a price offer before all of the above conditions are met.

2.3. Synergrid offer for homologation

After receipt of the request for homologation, including the technical file, Synergrid will first do an administrative check to verify the completeness of the technical file.

Within 15 working days after receipt of the request and document(s), Synergrid will answer as follows:

- a. In case of **an incomplete demand**, Synergrid will inform the applicant and ask for completion, without making an offer. An administrative cost will be charged, since an additional administrative check will be necessary when receiving the corrected file.
- b. In case of a **complete demand** Synergrid will send the corresponding offer for homologation to the applicant.

This offer includes:

- Administrative check of completeness of the technical dossier, based on the references in the conformity assessment guide.
- Technical analysis of the technical dossier based on the requirements in C2/113-3 technical file, and feedback of this study in form of a report.
- Communication with the lead, and with Synergrid.
- Homologation report and evaluation by the CE2 commission of Synergrid.

A homologation offer has a validity of 3 months.

After receipt of the order, Synergrid will send an invoice to the applicant, and will start the homologation study.

Terms for additional costs:

- If an additional administrative check is necessary due to incompleteness or incorrectness of the composition of the technical dossier, an extra cost will be charged within the initial price offer.
- If more time is needed than originally determined (see initial price offer) due to an unclear technical file, an extra cost will be charged after completion of the analysis, based on the additional time that was needed. A clear and complete file will thus result in a more (cost-) efficient management of the homologation procedure.

To simplify the administrative load of the invoicing and additional costs as mentioned above will be settled up together after finishing the homologation procedure.

Prices for homologation are listed in Appendix 1. These prices are revised annually.

2.4. Normative study (C2/113-3)

During the analysis of the technical dossier, direct contact between the lead, assigned by Synergrid, and the applicant may take place.

After analysis of the technical dossier, the result of the normative study will be evaluated by the CE2 commission of Synergrid.

The normative study will be finished within 4 months.

2.5. Evaluation of the homologation result by CE2 commission of Synergrid

Synergrid will notify the applicant of the result of the decision and will send the applicant the report of the analysis.

- a. In case of a **negative evaluation** the applicant will receive the remarks of the analysis, so that an eventual new request for homologation can be send after the necessary adaptations.
- b. In case of a **positive evaluation**, the self-powered or dual powered protection relay will be published on the C2/113-0 homologation list in combination with the concerned circuit breaker.

The updated list C2/113-0 will be published on the Synergrid website within 6 weeks after approval in the CE2 commission of Synergrid.

2.6. Temporary C2/117 homologation - pilot project

In contrast with the procedure of the switchgear, a temporary homologation or a pilot project are not possible.

3. Annexes

3.1. Annexe 1 – Prices for homologation

The prices listed below are valid for the year: **2024.**

- Complete Homologation process	250€
- Additional administrative cost when:	
o The application is not complete	25€
o The technical file is incomplete	50€