

OSM/IN DECISION

Standard: EN 60898-1:2003; EN 60947-2:2003/2006.	Sub clause: 6; 5.2.	Sheet N°: OSM/IN 217 Page:
Subject: Markings of circuit breakers, certified according to EN 60898-1 and EN 60947-2 standards	Key words: - Markings - Additional markings	Meeting N°: 18 Item: 4.1.3

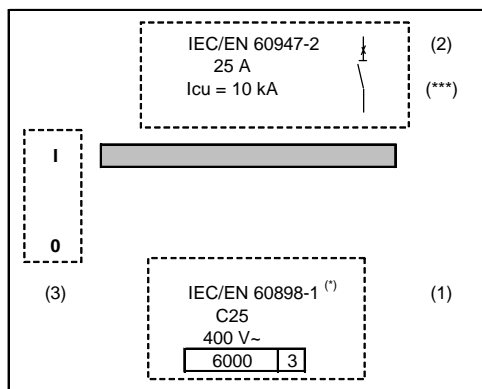
Question: Are the following proposals, related to the additional markings, acceptable?

Proposal 1:

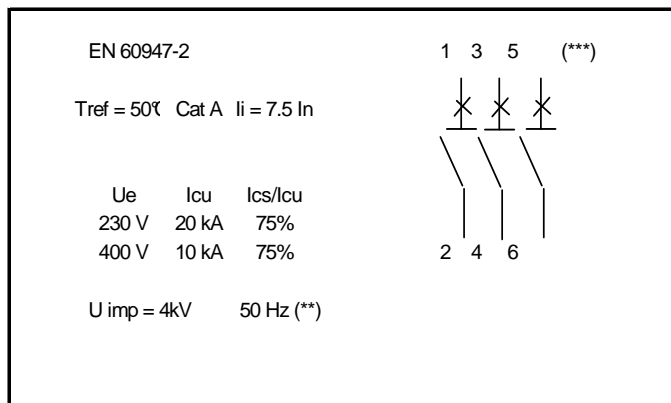
Markings, requested by the relevant standards, according to their localization on the product:

The following example is informative, the dimensions and positions in the two different areas are completely free.

Visible after installation (5)



Visible before installation (4)



(1) Markings according to EN 60898-1 (shall be visible after installation):

- Rated voltage with the symbol ~;
- Rated current without symbol "A" preceded by the symbol instantaneous tripping (B, C or D);
- Rated short-circuit capacity in a rectangle, in amperes, without symbol "A" ;
- Energy limiting class (e.g. 3) in a square in accordance with Annex ZA if applied.

(*) In order to avoid any confusion, it is recommended to reference to EN 60898-1, as the manufacturer claims also the compliance with EN 60947-2 standard;

(2) Markings according to EN 60947-2 (shall be visible after installation):

- EN 60947-2, as the manufacturer claims compliance with this standard;
- Rated current (In);
- Suitability for isolation, if applicable, with the symbol. (***) the isolation symbol could be used in the wiring diagram;
- Rated ultimate short-circuit breaking capacity (Icu) at the corresponding rated voltage (Ue); Could be covered by the marking of rated voltage according to EN 60898-1, if the voltage is the same.

(3) Indication of the open and closed positions, with and respectively, if symbols are used (see 7.1.5.1 of Part 1).

(4) Any others additional markings requested, according to EN 60947-2 or/and EN 60898-1 standards (visible before installation);

(**) In order to avoid any confusion, it is recommended, to reference to the value (or range) of the rated frequency but recommended. (for example 50 Hz), and/or the indication "d.c." (or the symbol);

(5) Only if the **space** available for **markings** is **insufficient** for proposal 1 the **proposal 2** shall be applied.

To be continued

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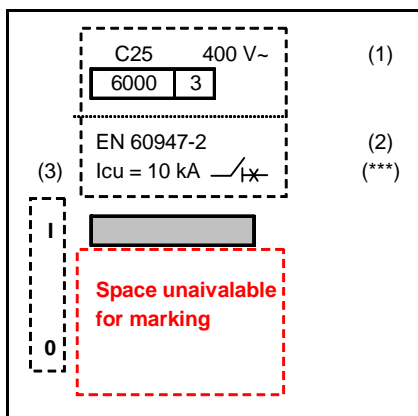
Proposal 2:

Only for small product, where the space available for markings is not sufficient for applying the proposal 1, the proposal 2 shall be applied.

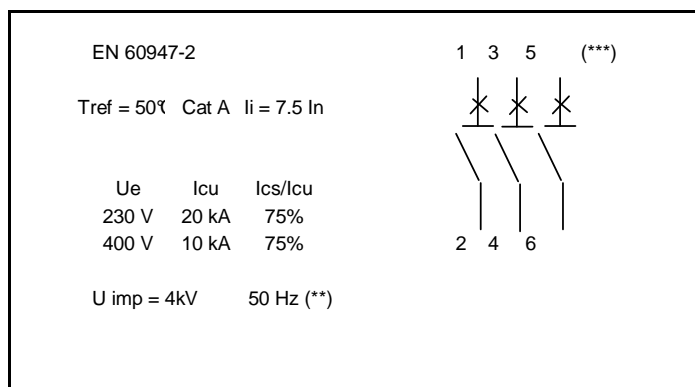
Markings, requested by the relevant standards, according to their localization on the product:

The following example is informative, the dimensions and positions in the two different areas are completely free.

Visible after installation



Visible before installation (4)



(1) Markings according to EN 60898-1 (visible after installation)

- Rated voltage with the symbol ~ ;
- Rated current without symbol "A" preceded by the symbol instantaneous tripping (B, C or D) ;
- Rated short-circuit capacity in a rectangle, in amperes, without symbol "A" ;
- Energy limiting class (e.g. 3) in a square in accordance with Annex ZA if applied .

(2) Markings according to EN 60947-2 (visible after installation)

- EN 60947-2, as the manufacturer claims compliance with this standard;
- Rated current (In), could be covered by the marking d) of EN 60898-1;
- Suitability for isolation, if applicable, with the symbol (***).
 - In order to avoid any confusion with MCB suitable for isolation, the use of the **symbol** is requested. **Even**, if it is used in the wiring diagram;
 - In the case of all the markings, according to EN 60947-2, are **only on the side** of MCB (4), MCB have to be considered as **not suitable for isolation**;
- Rated ultimate short-circuit breaking capacity (Icu) at the corresponding rated voltage (Ue) .
rated voltage (Ue), could be **covered** by the marking c) of EN 60898-1 only if the rated voltage is the same;

(3) Indication of the open and closed positions, with and respectively, if symbols are used (see 7.1.5.1 of Part 1);

(4) Any others additional markings requested, according to EN 60947-2 or/and EN 60898-1 standards (visible before installation).

(**) In order to avoid any confusion, it is recommended, to reference to the value (or range) of the rated frequency but recommended. (for example 50 Hz), and/or the indication "d.c." (or the symbol) .

To be continued

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Subject: Markings of circuit breakers, certified according to EN 60898-1 and EN 60947-2 standards	Key words: - Markings - Additional markings	Meeting N°: 18 Item: 4.1.3
Decision: The proposal 1 is recommended and only for small product. Where the space available for markings is not sufficient for applying the proposal 1, the proposal 2 shall be applied.		
Explanatory notes: -		