

CLC/SC 23E - Circuit breakers and similar devices for household and similar applications

Subject: EN 61008-1

Clarification regarding the grid distance “a” during short-circuit tests

In subclause 9.11.2 Short-circuit tests, 9.11.2.1 General conditions for test, f1) Test in free air, of EN 61008-1 it is said:

“For higher short-circuit currents up to I_{nc} , the distance “a” may be increased and/or additional barriers or insulating means may be fitted, as stated by the manufacturer; “a”, if increased, shall be chosen from the series 40 – 45 – 50 – 55 – .. mm and stated by the manufacturer.”

- 1) *It is not clear what information should be stated by the manufacturer regarding the distance “a” when the value is increased and/or additional barriers or insulating means need to be fitted.*
- 2) *It is not clear where this information can be found.*
- 3) *A maximum value of “a” is not provided, although in practice it cannot be infinite.*

Therefore, it is recommended:

- *To provide in the manufacturer’s documentation (catalogue, datasheet, e-catalogue, ...)*
 - o *installation information related to the grid distance “a” if different from 35 mm or if requiring additional barrier(s) to achieve the grid distance “a”,*
 - o *the grid distance “a” if exceeding 35 mm.*
- *That the grid distance “a” does not exceed 250 mm.*