

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

Subject: EN 61009-1

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

*In subclause 9.12 Short-circuit tests, 9.12.9 General conditions for test, 9.12.9.1 Test in free air of EN 61009-1, 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.*