

Interpretation Sheet 1**EN 60898-1:2003**

English version

Foreword

This Interpretation Sheet to the European Standard EN 60898-1:2003 was prepared by the Interpretation Panel of the Technical Committee CENELEC TC 23E, Circuit breakers and similar devices for household and similar applications. The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC on 2007-05-07.

First paragraph of Subclauses 9.5 and 8.1.5.2**9.5 Tests of reliability of screw-type terminals for external copper conductors**

Compliance with the requirements of 8.1.5 is checked...

8.1.5.2 Circuit-breakers shall be provided with terminals which shall allow the connection of copper conductors having nominal cross-sectional areas as shown in Table 5.

Question:

For a same design construction of a terminal, is Table 5 to refer to the minimum and the maximum rated current of homogenous series of circuit-breakers or only to the rated current of the tested device ?

Interpretation:

For the same design and construction of a terminal, within an homogenous series of circuit-breakers, the terminals are fitted with copper conductors of the smallest and largest cross-sectional areas, as specified in Table 5 according to the minimum and the maximum rated current of the range, solid or stranded, whichever is the most unfavourable.

Each conductor is then subjected to a pull of the value, in newtons, shown in Table 11, according to the relevant Cross-section of the tested conductor.

When it is necessary, the tested values, for the different cross-sections with the relevant pulling force, shall be clearly indicated in the test report.

EXAMPLE 1:

For a product of rated current equal to 63 A, the range of nominal cross-sections to be clamped is 10 mm² to 25 mm² according to Table 5.

According to Table 11, the test shall be performed with a cable of 10 mm² cross-section and a pulling force of 80 N followed by another test with a cable of 25 mm² cross-section and a pulling force of 100 N.

EXAMPLE 2:

For a product with a range of 10 to 63 A, the range of nominal cross-sections to be clamped is 1 mm² to 25 mm².

According to Table 11, the test shall be performed with a cable of 1 mm² cross-section and a pulling force of 50 N followed by another test with a cable of 25 mm² cross-section and a pulling force of 100 N.

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