CIG-OSM/IN DECISION

Standard:	EN 61009-1:1994 EN 61009-1:2004	**Sub clause:**	9.21.1.4	**Sheet N°:** **Page:**	OSM/IN 208 1(1)
Subject:	Clarification of the text	**Key words:**	- pulsating direct current - smooth direct current	**Meeting N°:** **Item:**	17 4.1.2

Question: Which is the correct interpretation of this subclause?

Decision: The RCBO shall be tested according to figure 4c with a half-wave rectified residual current (current delay angle $\alpha = 0°$) in presence of a smooth direct current of 0,006 A.
Each pole of the RCBO is tested in turn, twice at each of positions I and II.
The half-wave current I_1, starting from zero, being steadily increased at an approximate rate of 1,4 IΔn /30 amperes per second for RCBOs with IΔn > 0,01 A and 2 IΔn /30 amperes per second for RCBOs with IΔn ≤ 0,01 A, the device shall trip before this half-wave current I_1 reaches a value not exceeding 1,4 IΔn or 2 IΔn respectively.

(Examples: 1) For RCBO's with IΔn = 10 mA, I_1 shall be ≤ 20 mA;
2) For RCBO's with IΔn = 30 mA, I_1 shall be ≤ 42 mA.)

Explanatory notes: This OSM/IN decision was based on a proposal for a new text relating 9.21.1.4 of EN 61008-1:2004, contained in document 23E_WG2_155, agreed by the IEC/SC23E/WG2 ad-Hoc Group meeting held on 22nd, 23rd and 24th May 2007 which is in charge for the revision of IEC 61008 and IEC 61009 standards.
This OSM/IN decision remains in force until the new edition of EN 61009-1 will be published.