OSM/IN DECISION

Standard:	EN 60669-2-1:2004	**Sub clause:**	17 (Table 102)	**Sheet N°:**	OSM/IN 215
Subject:	- Temperature rise on cover surfaces of a dimmer switch - Use of standardized boxes for the temperature rise test	**Key words:**	- Cover surfaces - Box	**Meeting N°:** **Item:**	14 - 17 - 18 6.13 - 3.4.4 - 3.4.4.2

Question:

Table 102 states that "the temperature rise measured according to clause 17 on all surfaces of the dimmer which can come in contact with cable insulation shall not exceed 55 K".
What are the measurement points on cover surfaces where temperature rise shall be measured?
Which box needs to be used for the temperature rise test?

Decision:

The opinion of CLC/TC 23B and its WG1 on the matter is that all sides of the electronic switch inside the box which can come in contact with the insulation of the cable or conductor have to be tested according to the text of clause 17.
The maximum temperature rise that is allowed is 55 K. If it is not possible (e.g. by the construction or the instruction sheet provided by the manufacturer) that the switch can come in contact with the insulation of the cable or conductor the test is not necessary.
Concerning which box needs to be used for the temperature rise test, CLC/TC 23B clarified that in case of the existence of standardized boxes a standard box shall be used. If necessary, mounting details shall be given in the TR. In the case there are no standardized boxes the manufacturer shall indicate in the instruction sheet which box is to be used (clause 8.8 of EN 60669-1).

Explanatory notes:

Items discussed by CLC/TC 23B during its June 2005 general meeting in Palermo and agreed also by CLC/TC 23B/WG1.