CTL DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Year
IEC 60669-1:2017	17.1	DSH 2100	2018
Category			
INST			
Subject	**Keywords**	**Developed by**	**Approved at**
Cross-sectional area to be used for temperature rise test	- Temperature rise test - Cross-sectional area	ETF 4	2019 CTL Plenary Meeting

Question

How to interpret the footnote a) of table 16 for switches having a rated current of 16 A?
It is not clear how to read this footnote.

Decision

The following table with the relevant rated current vs. cross-sectional area, representing footnote a) of table 16, shall be applied for the temperature rise test on switches having a rated current of 16 A:

a)		**Cross-sectional area**	
Switch construction		Rated voltage ≤ 250 V	Rated voltage > 250 V
Screw-type terminals	Switch pattern no. 1,2,4,5,6,7, etc.	4 mm^2	4 mm^2
	Switch pattern no. 3,03	4 mm^2	4 mm^2
Screwless terminals (with respect to clause 12.3.2, table 8)	Switch pattern no. 1,2,4,5,6,7, etc.	2,5 mm^2	2,5 mm^2
	Switch pattern no. 3,03	2,5 mm^2	2,5 mm^2

Explanatory notes

This DSH was prepared in close consultation with IEC SC 23B.

According to table 8 of IEC 60669-1, for rated current from 6 A up to and including 16 A, the maximum value for the connectable cross-sectional area of copper conductors for screwless terminals is 2,5 mm^2. Therefore the temperature rise test on switches with screwless terminals and rated current of 16 A shall be performed with conductors of a cross-sectional area of 2,5 mm^2.