

CTL DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Year
IEC 60335-1:2010 + AMD1:2013 + AMD2:2016	24.1	DSH 2099	2018
Category			
HOUS			
Subject	Keywords	Developed by	Approved at
Component requirements	-Components	ETF 1	2019 CTL Plenary Meeting
Question			
<p>Clause 24.1 states that “Components shall comply with the safety requirements specified in the relevant IEC standards as far as they reasonably apply”.</p> <p>Is a component required to meet the additional relevant safety requirements within the component standard if an IEC standard exists for the component, even if the component is not specifically identified in IEC 60335-1 (including Clause 2 Normative References), and the component standard includes safety requirements not contained within the body of the end-product IEC 60335-1 standard?</p>			
Decision			
<p>Yes. The only IEC component standard exceptions are those specified in Clause 24.1 of IEC 60335-1, specifically IEC 60034-1 for motors, IEC 60730-1 for relays, and IEC 62477-1 for power electronic converter circuits. Additionally, Clauses 24.1.1, 24.1.2 and 24.1.3 provide modification to the relevant IEC component standard for capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing (Annex F), for safety isolating transformers (Annex G) and for switches (Annex H), respectively. Also, Clause 24.1.8 allows the option for thermal links to be considered to be an intentionally weak part for purposes of Clause 19. Reiterating, it is not acceptable to only apply the sole requirements plainly written within IEC 60335-1. Components shall also comply with any additional relevant safety requirements specified in the IEC component standard as far as they reasonably apply.</p>			
Explanatory notes			
<p>Background:</p> <p>NCBs/CBTLs are interpreting and/or have a practice of executing Clause 24.1 differently.</p> <p>Clause 24.1 requires components to comply with safety requirements specified in the relevant IEC standard as far as they reasonably apply.</p> <p>Some NCBs/CBTLs simply apply only end-product requirements which are plainly written within the body of the IEC 60335-1 standard, and do not apply any other component safety requirements within a relevant IEC component standard (except as directly written in Clauses 24.1.1 through 24.1.9 and the related Annexes), thus disregarding the Clause 24.1 requirement above.</p> <p>Explanatory notes:</p> <p>IEC 60335-1 is an end-product safety standard. Components (with exceptions) have their own</p>			

IEC safety standards. Components within an end-product must comply with relevant safety component standards (with exceptions). IEC 60335-1 may introduce other requirements, some may be overriding, in addition to the component standard requirements, e.g. electrical spacings between live parts of components and accessible parts of the appliance (Clause 29) and resistance to fire - glow-wire test (Clause 30.2). Ergo, the requirements within IEC 60335-1 as an end-product standard do not cover all safety requirements for all components. Cl. 24.1 clearly mandates the use of other relevant IEC component standard requirements.

The decision is based on the comment from TC61 Wellington meeting held on May 2018.

