

CTL DECISION SHEET

Standard(s): IEC 60335-1:2001 edition 4	Sub clause(s): Clause 19.11.2	Sheet n°: DSH- 608
Subject: Short circuit of any two terminals of an electronic component	Key words: VDR protection with track fuses	Decision approved by the CTL in the 44th meeting 2007
<p>Question: Is a track fuse connected in series to VDR between phases or phase and neutral for protection considered as “an intentionally weak part” referred in sub-clause 19.1?</p> <p>Decision: It is considered as “an intentionally weak part”. This means that there is no need for two track fuses connected in series to VDR between phases or phase and neutral for protection if it complies with the requirement in sub-clause 19.1 with single track fuse connected to the VDR .</p> <p>Explanatory Notes: IEC 60335-1:2001 (ed 4.) Clause 19.11.2</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>d) short circuit of any two terminals of an electronic component, other than an integrated circuit. This fault condition is not applied between the two circuits of an optocoupler;</p> </div> <p>To protect a varistor between phases or phase and neutral, many manufacturers do not use normal fuses, but so called “track fuses”. Such track fuse is an "intentionally weak part“. As stated within cl. 19.1, if an intentionally weak part becomes permanently open-circuited, the relevant test is repeated on a second sample. This second test shall be terminated in the same mode unless the test is otherwise satisfactorily completed.</p>		