

Subject 60384-14

April 28, 2017

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Fixed Capacitors for Use in Electronic Equipment - Part 14: Sectional Specification: Fixed Capacitors for Electromagnetic Interference Suppression and Connection to the Supply Mains, UL 60384-14, are being proposed:

1. Removal of Figure 9DVD2 Modification

STP BALLOTS AND ALL COMMENTS DUE: May 29, 2017

UL's goal is to have no interest category comprise more than one-third of the STP membership balance. To improve the current balance for STP 60384-14, UL is looking for participants in the following interest categories: Commercial/Industrial User, Supply Chain, AHJ, Testing & Standards, and Consumer. Definitions for these interest categories are available on the Standards STP Internet site:

<http://ulstandards.ul.com/develop-standards/participation/interest-categories/>

If you are interested in applying for STP 60384-14 membership or are aware of potential candidates for this STP, please contact the STP Project Manager, Mitchell Gold at Mitchell.Gold@ul.com.

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Removal of Figure 9DVD2 Modification

RATIONALE

Proposal submitted by: Joe DeGregoria, UL LLC

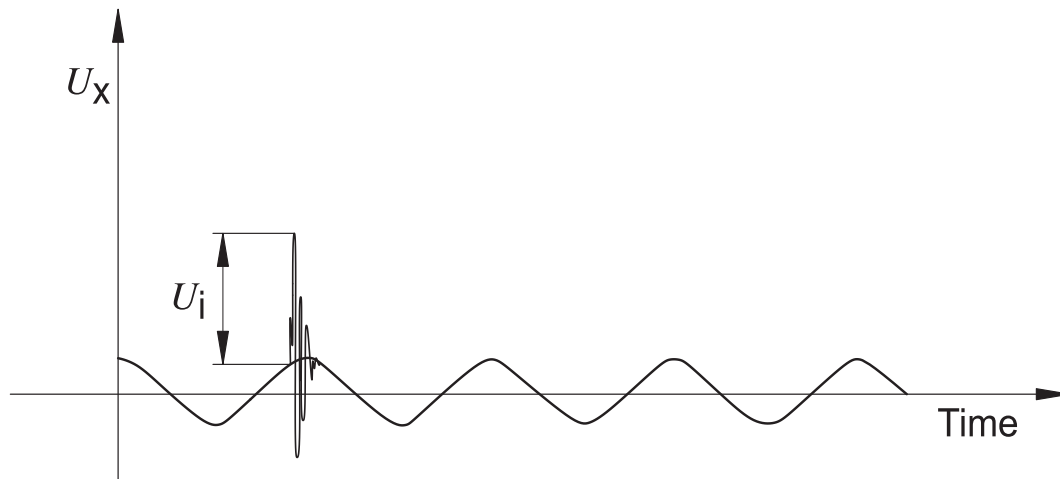
In the continued effort to harmonize with the second edition of IEC 60384-14, this deviation is no longer required.

PROPOSAL

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Figure 9 – Fundamental a.c. wave with randomly, not synchronized, superimposed high-voltage pulse



S5492

IEC 938/05

T_i = isolation transformer for blocking with secondary voltage of $U_{\sim}$, and a sufficient capacity to supply 16 A to the test circuit at a voltage of $\geq 0,9 \times U_{\sim}$;

C_1, C_2 = filter capacitor $1 \mu\text{F} \pm 10 \%$;

$L_1.. L_4$ = rod core choke $1,5 \text{ mH} \pm 20 \%$, 16 A;

C_3 = capacitor $0,033 \mu\text{F} \pm 5 \%$;

$R = 5 \Omega \pm 2 \%$ for $C_x \geq 1 \mu\text{F}$;

= $10 \Omega \pm 2 \%$ for $0,22 \mu\text{F} \leq C_x < 1 \mu\text{F}$;

= $40 \Omega \pm 2 \%$ for $0,068 \mu\text{F} \leq C_x < 0,22 \mu\text{F}$;

= $100 \Omega \pm 2 \%$ for $C_x < 0,068 \mu\text{F}$;

C_x = capacitor under test;

U_i = voltage to which the tank capacitor C_t is charged;

C_t = tank capacitor is $3 \mu\text{F} \pm 5 \%$ up to $C_x = 1 \mu\text{F}$, and $\geq 3 \times C_x$ for $C_x > 1 \mu\text{F}$. The recommended value is $3 \times C_x$, but it is allowed to use a reasonably higher value in order to standardize the test equipment;

F = slow-blow fuse, rated 16 A.

NOTE C_1, C_2 and $L_1.. L_4$ comprise a mains protection filter; other configurations for these filters are permitted.

C_3 and C_t should have a suitable voltage compared to the required U_i during test.

Figure 9DV-D2-Modification of C_t value in Figure 9 by adding alternate means with the following:

C_t = tank capacitor is $3 \mu\text{F} \pm 5 \%$ up to $C_x = 10 \mu\text{F}$. For $C_x > 10 \mu\text{F}$ it is allowed to use a reasonably higher value of C_t for the intended wave form in order to standardize the test equipment.