Subject 773A

February 23, 2018

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Nonindustrial Photoelectric Switches for Lighting Control, UL 773A, are being proposed:

1. Add provisions for grounding of Electronic Lighting Control Switches to align UL 773A with NFPA 70, Article 404.22 and 404.2 (c)

2. Add Electronic Ballast test information to UL773A as in other UL and CSA standards

3. Align UL 773A with NEMA 410 2015

4. Add Abbreviation as Alternate Marking for Electronic Ballasts

STP BALLOTS AND ALL COMMENTS DUE: April 9, 2018

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 773A, UL is looking for participants in the AHJ, Commercial/Industrial User, Consumer, Government, Supply Chain and Testing & Standards interest categories. 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 773A membership or are aware of potential candidates for this STP, please contact the STP Project Manager, Anne Marie Jacobs, AnneMarie.Jacobs@ul.com.

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

1. Add provisions for grounding of Electronic Lighting Control Switches to align UL 773A with NFPA 70, Article 404.22 and 404.2 (c)

RATIONALE

Proposal submitted by: Don Berlin, Intermatic Incorporated

Add provisions for grounding Electronic Lighting Control Switches to align with latest requirements from NFPA 70, Article 404.22 and 404.2 (C).

PROPOSAL

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Table 42.1
Markings and instructions

Note: Only the affected portion of Table 42.1, Marking & Instructions, is shown below.

Ref	Type of devices	Statement	Marking	Location
25	Devices ~~requiring connection to ground~~ which introduce current on the equipment-grounding conductor (see ~~14.1.7~~14.1.11)	Devices evaluated according to requirements in ~~14.1.7~~14.1.11	"Device will not function if it is not grounded" and "To be installed only in replacement or retrofit applications where the grounded conductor (neutral) is not present in the outlet box"or equivalent wording	On the product and instruction sheet

2. Add Electronic Ballast test information to UL773A as in other UL and CSA standards

RATIONALE

Proposal submitted by: Don Berlin, Intermatic Incorporated

Add figures 21.1 and 21.2 and test information for electronic ballast rating, as included in other standards such as UL 20, UL 1472, and UL 773.

PROPOSAL

21.10 The synthetic load described in 21.11 and 21.12 shall be used as the load for testing. The endurance test shall be completed with that load.

21.11 The series coil values shall be adjusted based on the input line characteristics to achieve the peak currents listed in Table 21.5, Electronic ballast, and Table 21.6, Controls rated 347 VAC. The series coil shall be sized such that it does not saturate during testing and shall be able to handle the resulting power dissipation with less than 10°C temperature rise. Peak current and pulse width are illustrated in Figure 21.1.

21.12 The circuit shall provide a method to discharge the capacitor bank in between test cycles without influencing the performance of the device under test. This is accomplished by S2 and R2 in Figure 21.2. S2 should be switched alternately with S1 and R2 should be sized to allow for complete discharge of C during the period that S1 is open.

3. Align UL 773A with NEMA 410 2015

RATIONALE

Proposal submitted by: Don Berlin, Intermatic Incorporated

General revision to Table 21.5, Electronic ballast, to align with correction made in NEMA 410 2015, pulse width. Add a new table 21.6, to add updated 347 VAC ratings per revised NEMA 410 2015, and add additional test information consistent with NEMA 410 2015.

PROPOSAL

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