

## UNDERWRITERS LABORATORIES INC. CERTIFICATION REQUIREMENT DECISION

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**Product Category (CCN):**  
**Standard Number: UL**  
**Standard Title: Standard for**  
**Edition Date: August 20, 2014**  
**Edition Number: 4**  
**Section / Paragraph Reference: Section 44**  
**Subject: Table 44.1**

### DECISION:

**Table 44.1**  
**Test voltage selection table**

| Nominal voltage rating   | Phase          | Minimum test voltage <sup>a, c</sup> |
|--------------------------|----------------|--------------------------------------|
| 0 – 109V                 | Single         | Twice Rated Voltage                  |
| 110 – 219V               | Single         | 240                                  |
| 220 – 229V               | Single         | 380                                  |
| 230 – 239V               | Single         | 400                                  |
| 240 – 345V               | Single         | 480                                  |
| 346 – 399V               | Single         | 600                                  |
| 400 – 499V               | Single         | 690                                  |
| 500 – 1000V              | Single         | Twice Rated Voltage Up to Max 1000V  |
| 110 – 120/220 – 240V     | Split          | 240                                  |
| 120/208V                 | 3-WYE          | 208                                  |
| 220/380V                 | 3-WYE          | 380                                  |
| 230/400V                 | 3-WYE          | 400                                  |
| 220 – 240/380 – 415V     | 3-WYE          | 415                                  |
| 240/415V                 | 3-WYE          | 415                                  |
| 254 – 277/440 – 480V     | 3-WYE          | 480                                  |
| 346/600V                 | 3-WYE          | 600                                  |
| 400/690V                 | 3-WYE          | 690                                  |
| 120/240V                 | High leg delta | 240                                  |
| 240/480V                 | High leg delta | 480                                  |
| <del>0 – 1000</del> 240V | Delta          | <del>b</del> e                       |
| 480V                     | Delta          | e                                    |
| 600V                     | Delta          | b                                    |

<sup>a</sup> For device voltage ratings not specified in this table, the test voltage shall be the maximum phase voltage (if available) or twice the conductor pair voltage rating up to 1000Vmax.

<sup>b</sup> SPDs rated for use on a Delta power distribution system shall be subjected to the Short circuit current rating and Intermediate current tests, with a minimum test voltage ≥ the full phase (L-L) voltage. The Limited current abnormal over voltage test is Abnormal Abnormal Overvoltage Tests are not required to be conducted on 600V delta rated units, but short circuit testing shall be performed performed SPDs rated for use on a Delta power distribution system.

<sup>c</sup> The Short Circuit and Intermediate Current tests are performed at the full phase voltage.

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Table 44.1 Continued

| Nominal voltage rating                                                                                               | Phase | Minimum test voltage <sup>a</sup> , <sup>cd</sup> |
|----------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|
| <sup>cd</sup> The test voltage may be increased beyond the minimum values when agreed upon by all concerned parties. |       |                                                   |

**RATIONALE FOR DECISION:**

Clarify Current testing for SPDs intended for connection on delta power systems

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