

Accu-CT Compliance to UL 2808 (XOBA)

Background

Until recently, almost all current transformers (CTs) used with electric submeters were certified by Underwriters Laboratories (UL) as UL Recognized Components under the XODW standard, using a subset of the requirements from IEEE C57.13 and CSA 60044-1. The key phrase is "UL Recognized Component". The UL Recognized status meant the CTs not approved for standalone field installation. UL did approve the use of UL Recognized Component CTs with UL Listed submeters (like the WattNode meter) for field installation.

In the past, the meter approval was generally accepted by the building inspector or authority having jurisdiction (AHJ). But in some cases, inspectors would request a copy of the conditions of acceptability for the current transformers and find that the CTs were not approved for field installation, and so would not approve the job.

UL 2808 CT safety standard

The UL 2808 CT safety standard was released by UL in 2012 under category code XOBA. The 2017 Edition of the National Electrical Code (NEC), which is scheduled for publication on Aug. 1, 2016, requires that field installed CTs used to measure current on the service entrance or branch circuit conductors within panelboards, switchboards, industrial control equipment, and energy-monitoring/management equipment, must be listed (UL Listed).

As the new code is adopted by states and other authorities, only UL Listed CTs will be permitted in circuit breaker panels or related electrical enclosures.

All Accu-CTs now UL 2808 Listed

The ACT series of high-accuracy split-core current transformers are now UL Listed to the XOBA standard. The newest ACT-1250 family has been compliant since its release, and the older ACT-0750 family of UL recognize CTs has been redesigned and approved as a UL 2808 Listed CT.

The new ACTL-0750 version is form, fit and functionally identical to the ACT-0750 family except the change to 18 AWG lead wires as required by UL 2808. In addition, there is added internal insulation, and the blue plastic enclosure has a higher temperature rating.