

Utility Relay News

Issue IV

Spring, 1999

AC-PRO Achieves UL Classification

URC is excited to report that our recent testing efforts for the AC-PRO trip unit met with considerable success this past Fall.

In November, URC completed type-testing a DB-50 circuit breaker, retrofit with an AC-PRO trip unit, to the ANSI C-37.59 standard at Allen-Bradley's high power test lab in Milwaukee, WI. In the process, the AC-PRO trip unit also qualified for UL Classification by the UL monitor in attendance.

For those who may not be familiar with the ANSI and UL testing procedures, the requirements are quite rigorous.

The first part was easy. The AC-PRO underwent a series of secondary injection tests to confirm the trip unit's accuracy. Then the retrofit DB-50 breaker, was subjected to a series of dielectric withstand tests. So much for the easy stuff.

Next, the breaker had all three phases bussed up to an enormous transformer. Actually the transformer was

TRIP DEVICE
IN ACCORDANCE WITH IEEE C37.59-1991
CAN / CSA-C22.2 NO. 31.M89
10ZM

sitting behind a one foot thick, twenty foot high concrete wall. During the actual tests, we were located about 50 feet away in a separate control room separated by two layers of safety glass - just in case.

The short circuit tests consisted of a series of interruptions with the AC-PRO's Instantaneous trip function turned on. These faults were rated at 50,000 Amps @ 508 VAC. Then a series of interruptions with the Instantaneous function turned off and the short time function turned on with the maximum time delay. These faults were

rated at 42,000 Amps @ 638 VAC.

After successfully completing all of the required short circuit interruptions, the breaker had another series of dielectric withstand tests and the AC-PRO was put through another series of secondary injection tests.

In January of this year, UL completed their evaluation of the AC-PRO with a site visit to our manufacturing facility in Twinsburg. At that time, the AC-PRO received a clean bill of health from UL. Our UL Classified labels for the AC-PRO trip unit should arrive from the printer in early March and start appearing on our trip units shortly thereafter.

Win a PALM PILOT III Data Organizer!

Fill out the entry form below and return it to:

Utility Relay Company
9263 Ravenna Rd. A-3
Twinsburg, OH 44087

The drawing will be held on Thursday, March 11 at the NETA Technical Conference in Pittsburgh, PA. The winner will be notified if he/she is not present for the drawing.

Name: _____

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Please send me additional information regarding:

AC-PRO Retrofit Kits

ZERO-Hertz DC Retrofit Kits

Communications