

Certificate of Calibration

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Current Transformer

Model: ACTL-1250-250 Opt C0.3
Serial Number: C0248087P3
Rated Primary Current: 250 A
Manufacture Date: 2017-Dec-01
Calibration Date: 2017-Dec-01
Calibration Due Date: 2033-Dec-01 (sixteen year recommended calibration interval)

Traceable Test Equipment

Traceability is to national standards administered by U.S. NIST and/or Euromet members (U.K. NPL, etc.).

| Equipment | Manuf. | Model | Cal Due Date | Serial Number |
|---------------------------|--------|-----------|--------------|---------------|
| Electrical Power Standard | FLUKE | 6105A-50A | 2018-Oct-09 | 215865479 |

Calibration

Temperature: 23 ± 5°C
Line Frequency: 60 Hz

Operator: Kaleb Smith
Calibration Station: CALSYS11

| Condition (% Rated Current) | Test Current (Amps) | Accuracy Limit (Percent) | Measured Accuracy (Percent) | Phase Limit (Degrees) | Measured Phase (Degrees) | TCF Limit | Measured TCF | Result |
|-----------------------------|---------------------|--------------------------|-----------------------------|-----------------------|--------------------------|-------------|--------------|--------|
| 120% | 300.0 | ± 0.30% | -0.04% | ± 0.125° | +0.011° | 1.0 ± 0.003 | 1.0002 | PASS |
| 100% | 250.0 | ± 0.30% | -0.04% | ± 0.125° | +0.013° | 1.0 ± 0.003 | 1.0001 | PASS |
| 90% | 225.0 | ± 0.30% | -0.04% | ± 0.125° | +0.013° | 1.0 ± 0.006 | 1.0001 | PASS |
| 75% | 187.5 | ± 0.30% | -0.05% | ± 0.125° | +0.015° | 1.0 ± 0.006 | 1.0002 | PASS |
| 50% | 125.0 | ± 0.30% | -0.06% | ± 0.125° | +0.018° | 1.0 ± 0.006 | 1.0001 | PASS |
| 30% | 75.0 | ± 0.30% | -0.05% | ± 0.125° | +0.022° | 1.0 ± 0.006 | 1.0000 | PASS |
| 20% | 50.0 | ± 0.30% | -0.05% | ± 0.125° | +0.026° | 1.0 ± 0.006 | 0.9999 | PASS |
| 15% | 37.5 | ± 0.30% | -0.05% | ± 0.125° | +0.028° | 1.0 ± 0.006 | 0.9999 | PASS |
| 10% | 25.0 | ± 0.30% | -0.05% | ± 0.125° | +0.030° | 1.0 ± 0.006 | 0.9998 | PASS |
| 5% | 12.5 | ± 0.30% | -0.05% | ± 0.250° | +0.034° | No Limit | 0.9997 | PASS |
| 3% | 7.5 | ± 0.30% | -0.05% | ± 0.250° | +0.029° | No Limit | 0.9998 | PASS |
| 1.5% | 3.75 | ± 0.30% | -0.05% | ± 0.250° | +0.030° | No Limit | 0.9998 | PASS |
| 1% | 2.5 | ± 0.30% | -0.05% | ± 0.250° | +0.047° | No Limit | 0.9994 | PASS |

This device meets IEEE C57.13 class 0.3 accuracy (TCF) limits.

This device meets IEC 60044-1 class 0.5 and 0.5 S accuracy limits for error and phase displacement.

Positive measured phase corresponds to the output signal leading the primary current.

For more information about IEEE C57.13, IEC 60044-1, and TCF (transformer correction factor) visit:
https://ctlsys.com/ct_accuracy_standards/.