



burden set – current

BSC-102



introduction

The industry has recognized the actual load (burden) on CTs is lower than the standard ANSI burdens allow. So a new IEEE Specification (IEEE C57.13.6) accommodates that fact by introducing two new burdens and two new accuracy classes. This new specification address “**High Accuracy**” CTs

Knopp has a new Burden Set that includes the two new burdens in the IEEE Specification: The E-0.04 and E-0.2 burdens. The new Burden Set is called the BSC-102. These burdens are of much lower impedance than that of the other ANSI burdens to much more closely match the real world.

testing

To test CTs using the new “**High Accuracy**” specification, a means to measure accuracy at lower currents is needed in addition to the new Knopp BSC-102. All new Knopp Current Transformer test systems include a new KATC-C1 Comparator that has been upgraded to allow accuracy measurements down to 4 ma (less than 1% of test current) instead of the previous 4%. Older KATC-C and KATC-C1 Comparators can be modified to allow for this extended range testing with the new BSC-102.

Note that this Comparator modification also allows accuracy measurements of all “Extended Range” CTs.

implementation

All new KCTS-8000 CT Test Systems will have the BSC-102 built in and the KATC-C1 will have the necessary modification to accommodate. The required burden (E-0.04 or E-0.2) is built-in and selected by the front panel Burden select switch.

Existing installations of the KCTS-8000 CT Test System can be modified. The BSC-102 Burden Set box can be mounted on top of the KCTS and connected to the “external burden” terminals. The Comparator would have to be returned for modification at Knopp.

specifications

Here are characteristics of the BSC-102:

Burden Designation	Resistance (ohms)	Inductance (millihenrys)	Impedance (ohms)	Volt-amperes	Power factor
E-0.04	0.04	0.0	0.04	1.0	1.0
E-0.2	0.20	0.0	0.20	5.0	1.0

Dimensions: The approximate overall dimensions of the BSC-102 is 8-1/4” long x 7-1/4” wide x 7-3/4” high

Weight: The net weight of the BSC-102 is approximately 7 pounds.

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