

CILBERT & MAXWELL TRANSFORMERS PVT. LTD.

Your partner in transformation!

SAFETY
RELIABILITY
EFFICIENCY

Metering CT's V/s Protective CT's

Metering CT's are guaranteed to work accurately from 5% to 120% of the rated current.

On the other hand, the Protective CT's are guaranteed to work beyond the rated Current.

e.g. A 5 VA 5P 10 CT has following meaning.

5 VA = Rated (Max.) Burden.

5P = 5% Protective Class (P= Protective)

10 = Up to 10 times the rated Current.

i.e. Such a CT is guaranteed to remain linear (Error within 5%) up to 10 times the rated Current.

If the CT was rated as 5P 5, it would have meant that the linearity (as guaranteed up to 5 times the rated Current.

The numbers **5 & 10** used above are called A.L.F. (Accuracy unit Factor). The ALF value is decided mainly from the possible (expected value of Maximum Fault Current that is likely to flow in the circuit in case of a short Circuit.

Your Customer (ABB) is perfectly right in saving that a "Protective" CT be used for Protective function. (That is the way of s for overload Protection are specified in Power Systems).

However, a metering (Measuring **Cass)** CT might be able to fulfill requirements of the protection ton, in a given circuit.

If you are using measuring CT sfor feedback protection, please let us know your actual Burden on the state (which will consist of the Circuit Burden (e.g. 0.2 Ohms) + the leader Burden (e.g. 1.5+1.5 metres of 2.5 sq. mm. Wire).

We will test the CTO cordingly and inform you the "Protective" Rating for the "Metering" CT you might be presently using. The Test is not direct test specified in IS-2705 (Part 3).



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