

Standard current comparators

4761
4764
4766



Features

- Wide measuring range (up to 100 kA)
- Very small current error
- Wide operating range (1 ... 200 % I_N)
- No correction calculation is necessary, thank negligible current errors
- Suitable as standard current instrument transformer for CT test sets, or for measuring range extension for C/tan δ measurements of high capacitance values.

Rated current ranges

	Type 4761	Type 4764	Type 4766
Primary	1 ... 1000 A	5 ... 5000 A	10000 A
Secondary	1 - 5 A	1 - 5 A	100 A

General

The errors of conventional standard current transformers inevitably depend on the burden. A magnetic flux in the core produces the e.m.f. which sustains the secondary current in the burden. This disadvantage has now been eliminated by the development of the two new current comparators, types 4761 and 4764. An indicator winding measures the magnetic flux in the core, while an amplifier – by regulating the current in a compensating winding – makes sure that the flux in the core is approximately zero.

Basic circuit diagram

