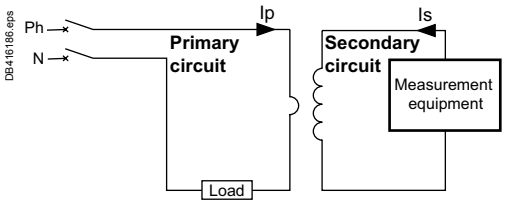
# CT, Ip/5 A ratio




*Application diagram of a CT.*

The Ip/5A ratio current transformer delivers at the secondary a current (Is) of 0 to 5 A that is proportional to the current measured at the primary (Ip).
This allows them to be used in combination with measurement equipment:

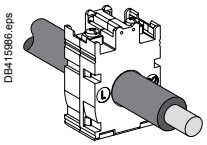
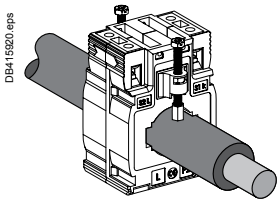
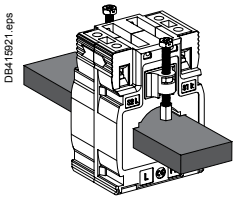
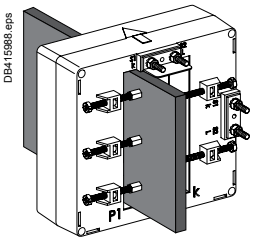
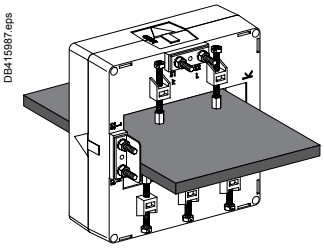
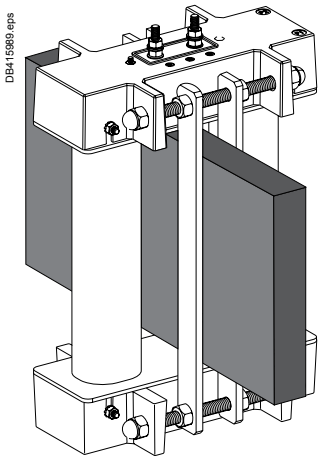
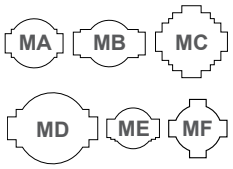
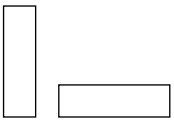
- ammeters
- kilowatt-hour meters
- measurement units
- control relays
- etc.

When the primary is energized, the measurement equipment nearly acts as a short circuit which keeps the secondary voltage very low. This voltage will increases significantly if the short circuit is removed.

## CT selection - conductor rating aspects

The choice depends on the conductor profile and the maximum intensity of the primary circuit.

**CT with let-through primary**

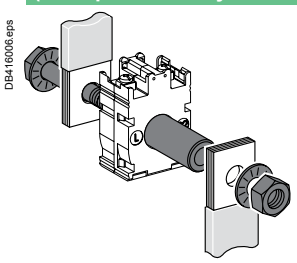
| Conductor type | Cable | Mixed, bars or cables | Vertical or horizontal bars | Vertical bars | |
|---|---|---|---|---|---|
| Suggested Current Transformer and mounting |  |   |   |  | |
| Ratings (A) | 40 to 250 | 150 to 800 | 200 to 4000 | 500 to 600 | 5000 to 6000 |
| **CT internal profile** | **Type C** | **Type M** | **Type D** (1) | **Type V** | |
| |  |   |  |  VF |  VV |

*(1) Two secondary connectors (parallel internal wiring - only one secondary winding) for easier cable access. 1 lateral + 1 on one extremity. Warning: only one must be used at a time.*

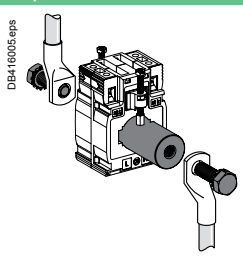
## Specific mounting: use of cylinder

A cylindrical metallic spacer ensures a proper CT positioning when the conductor or the CT cannot be positioned perpendicular. Secured by bolt + nut.

**CT with primary connection by screw and nut**
**(example: use of cylinder with bar or cable)**



*16550 (brass)*



*METSECT5CYL1 (aluminium)*