

# Current and Voltage Controls

## Current Transformer, 1-Phase AC

### Type TAD 4, TAD 6

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TAD4



TAD6

- Cable/bus-bar type current transformer
- DIN-rail, bus-bar and panel mounting facility
- TAD4: class 0.5, currents from 200 to 800 A
- TAD 6: class 0.5, currents from 400 to 2000 A

## Product Description

Cable/bus-bar type current transformer with DIN-rail/bus-bar and panel mounting facilities.

Rated primary currents from 100 A to 2000 A.

## Ordering Key

**TAD4 200A 5A**

Model \_\_\_\_\_  
 Primary current \_\_\_\_\_  
 Secondary current \_\_\_\_\_

## Type Selection

### Model

**TAD4:** Cable diameter:  
 max. 32 mm  
 Bus-bar size:  
 32 x 16 mm  
 41 x 11 mm

**TAD6:** Cable diameter:  
 max. 52 mm  
 Bus-bar size:  
 55 x 22 mm  
 65 x 20 mm

### Primary current

Refer to Range Table

## Input Specifications

|                                                    |                                                                                                                                |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Operating frequency                                | 40 to 60 Hz                                                                                                                    |
| Max. system voltage                                | 0.72 kV                                                                                                                        |
| Rated insulation level                             | 3 kV / 1 min. @ 50 Hz                                                                                                          |
| Short-time current rating<br>$I_{th}$<br>$I_{dyn}$ | Typical $100 I_n / 1 s$<br>$2.5 I_{th}$<br>The short-time thermal current $I_{th}$ is anyway limited by the cable/bus-bar size |
| Extended current rating                            | 120%                                                                                                                           |
| Security factor (FS)                               | $\leq 5$                                                                                                                       |

## Output Specifications

Rated secondary current    5 A standard  
                                          1 A on request

## General Specifications

|                                     |                                                                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                           | According to IEC 60185                                                                                                                        |
| Housing                             | ABS, self-extinguishing: UL 94 V-0                                                                                                            |
| Mounting                            | DIN-rail 46277/bus-bar and panel mounting (brackets supplied with the CT)                                                                     |
| Standard accessories                | Screws + washers for secondary terminals<br>Brackets for panel mounting<br>Screws for cable/bus-bar mounting<br>Sealable terminal block cover |
| Special features                    | 1 A secondary current<br>Double ratio obtained on the secondary<br>Tropicalization                                                            |
| Cable diameters<br>TAD 4:<br>TAD 6: | max. 32 mm<br>max. 52 mm                                                                                                                      |
| Bus-bar size<br>TAD 4:<br>TAD 6:    | 32 x 16 mm or<br>41 x 11 mm<br>55 x 22 mm or<br>65 x 20 mm                                                                                    |

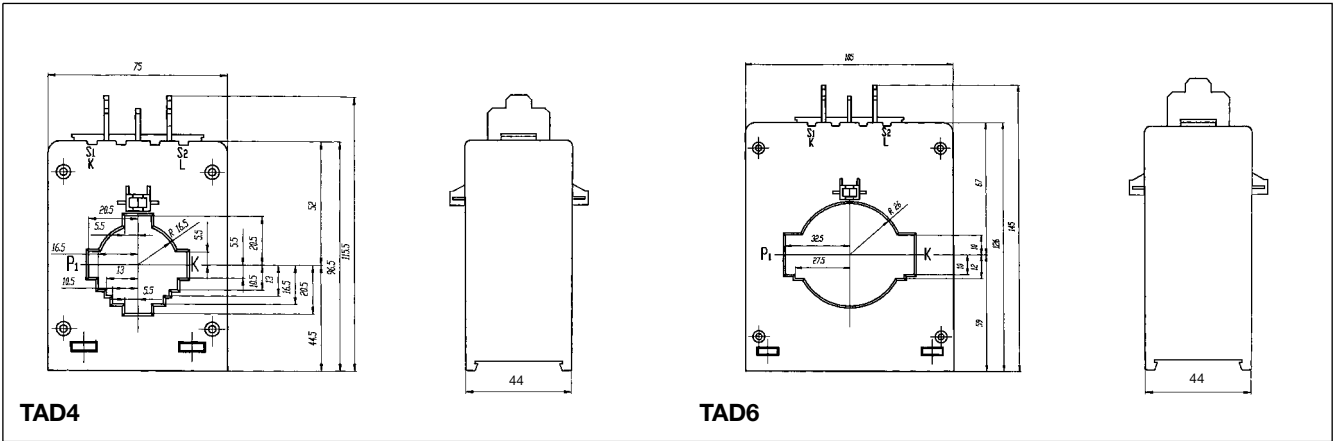


Range Table

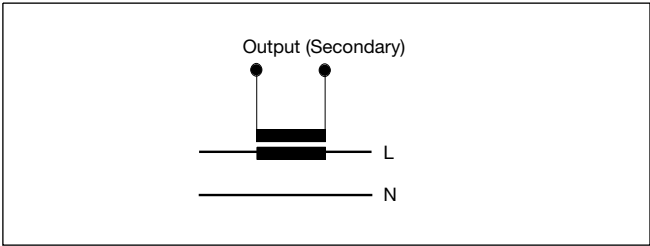
| TAD 4:                      |                                   |                                 | TAD 6:                      |                                   |                                 |
|-----------------------------|-----------------------------------|---------------------------------|-----------------------------|-----------------------------------|---------------------------------|
| Rated<br>Primary<br>Current | Rated secondary current 1 A/5 A   |                                 | Rated<br>Primary<br>Current | Rated secondary current 1 A/5 A   |                                 |
|                             | Class 0.5 <sup>1)</sup><br>Burden | Class 1 <sup>1)</sup><br>Burden |                             | Class 0.5 <sup>1)</sup><br>Burden | Class 1 <sup>1)</sup><br>Burden |
| 100 A                       | -                                 | 3 VA                            | 400 A                       | 6 VA                              | 12 VA                           |
| 150 A                       | -                                 | 3 VA                            | 500 A                       | 6 VA                              | 12 VA                           |
| 200 A                       | 4 VA                              | -                               | 600 A                       | 10 VA                             | 20 VA                           |
| 250 A                       | 6 VA                              | -                               | 800 A                       | 10 VA                             | 20 VA                           |
| 300 A                       | 6 VA                              | -                               | 1000 A                      | 20 VA                             | 40 VA                           |
| 400 A                       | 10 VA                             | -                               | 1200 A                      | 20 VA                             | 40 VA                           |
| 500 A                       | 10 VA                             | -                               | 1500 A                      | 30 VA                             | 60 VA                           |
| 600 A                       | 10 VA                             | -                               | 2000 A                      | 30 VA                             | 60 VA                           |
| 800 A                       | 10 VA                             | -                               |                             |                                   |                                 |

1) The accuracy class is depending on the burden output. For the same rated primary current, the higher the burden the lower the class (class down-grade).

Dimensions



Wiring Diagram



Standard Accessories

- Sealable plastic cover for terminal block
- Brackets for panel mounting

