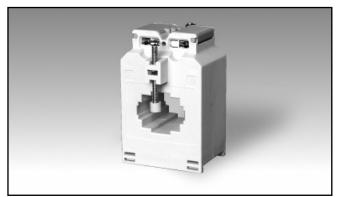
# Accessories AC Current Transformer (max 30x10 mm bus-bar) Type CTD-2X





- Bus-bar type current transformer
- 0.5 class, currents from 40 to 600 A
- Integrated DIN-rail mounting holder
- Removable panel fixing clips
- •2 Bus-bar isolated fixing screws
- Double screw terminals (up to 8-wire connections)
- Sealable terminal block covers

#### **Product Description**

Cable/Bus-bar type current transformer with DIN-rail/busbar and panel mounting facility. Rated primary currents from 40 A to 600 A.

## Ordering Key Model Primary current Secondary current

### Optional fixing kit: CTD-kit

## **Type Selection**

| Primary current                           | Secondary current | Option                         |
|---|-------------------|--------------------------------|
| From 40 to 600A<br>(Refer to Range Table) | 1A<br>5A          | XXX: none XTX: tropicalization |

#### **Input Specifications**

| Operating frequency  | 45 to 65 Hz   |
|--|---|
| Max. system voltage  | 0.72 kV   |
| Rated insulation level                                     | 3 kV/1 min. @ 50 Hz   |
| Insulation class   | E (max 75°C)  |
| Short-time current rating I <sub>th</sub> I <sub>dyn</sub> | Typical 100 I <sub>n</sub> /1 s<br>2.5 I <sub>th</sub><br>The short-time thermal<br>current I <sub>th</sub> is anyway limited<br>by the cable/ bus-bar size |
| Extended current rating                                    | 120%  |
| Security factor (FS)                                       | ≤ 5 (Class: 0.5, 1 and 3)   |

#### **General Specifications**

| Standards            | According to EN61869-2   |
|----------------------|--|
| Housing              | ABS, self-extinguishing:<br>UL 94 V-0  |
| Mounting             | DIN-rail bus-bar and panel mounting  |
| Standard accessories | Two terminal block screws. Two cable/bus-bar fixing screws. Two sealable terminal block covers. Two panel mounting fixing clips. Two plastic caps for cable/bus-bar fixing screws. |
| Optional accessories | Extended fixing kit: CTD-kit Two panel mounting fixing clips. Six cable/bus-bar fixing screws.   |

|                                     | Six plastic caps for cable/bus-bar fixing screws.  |
|-------------------------------------|--|
| Special features                    | 1 A secondary current,<br>Tropicalization  |
| Working temperature                 | -25°C to +60°C (-13°F to 140°F) (R.H. < 90% non condensing @ 40°C)   |
| Storage temperature                 | -30°C to +70°C (-22°F to<br>158°F) (R.H. < 90% non<br>condensing @ 40°C)   |
| Approvals                           | CE, cUrus and CSA  |
| Connection Cable cross section area | Screw type From 1.5 to 6 mm² Min/Max screws tightening torque relevant to terminal block screws: From 1 to 2 Nm Max screws tightening torque relevant to the cable/bus-bar fixing screws: 0,3 Nm |
| Protection degree                   | IP00<br>IP20 (with sealable terminal<br>block covers + wire terminals)   |
| Cable diameter                      | Max. 24 mm   |
| Bus-bar size Horizontal  Vertical   | Max. 32x5; 30x10; 25x20<br>mm<br>Max. 25x12 mm   |
| Weight<br>From 350 to 500 g         |  |

#### **Output Specifications**

Rated secondary current 5 A or 1 A

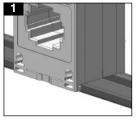


#### **Range Table**

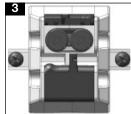
| Model CTD-2X from 40A to 125A |             |      |      |  |  |
|-------------------------------|-------------|------|------|--|--|
| Primary Current               | Burden (VA) |      |      |  |  |
| Α                             | CL 0.5      | CL 1 | CL 3 |  |  |
| 40 (@60°C/140°F)              |             |      | 1.25 |  |  |
| 50 (@60°C/140°F)              |             |      | 1.5  |  |  |
| 60 (@60°C/140°F)              |             |      | 2    |  |  |
| 70 (@60°C/140°F)              |             |      | 2.5  |  |  |
| 75 (@60°C/140°F)              |             | 1.75 | 2.5  |  |  |
| 80 (@60°C/140°F)              |             | 2    | 2.75 |  |  |
| 100 (@60°C/140°F)             |             | 2.5  | 3    |  |  |
| 120 (@60°C/140°F)             |             | 2.75 | 3.75 |  |  |
| 125 (@60°C/140°F)             | 2           | 2.75 | 3.75 |  |  |

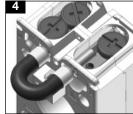
| Model CTD-2X from 150A to 600A |             |      |      |  |
|--------------------------------|-------------|------|------|--|
| Primary Current                | Burden (VA) |      |      |  |
| Α                              | CL 0.5      | CL 1 | CL 3 |  |
| 150 (@60°C/140°F)              | 3           | 4    | 5    |  |
| 160 (@60°C/140°F)              | 3           | 4    | 5    |  |
| 200 (@60°C/140°F)              | 4           | 5    | 6.5  |  |
| 250 (@60°C/140°F)              | 5.5         | 7    | 8    |  |
| 300 (@60°C/140°F)              | 7           | 8.5  | 9.5  |  |
| 400 (@50°C/122°F)              | 12          | 13.5 | 14.5 |  |
| 500 (@50°C/122°F)              | 14          | 15.5 | 16.5 |  |
| 600 (@40°C/104°F)              | 17.5        | 19   | 20   |  |

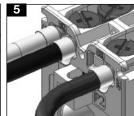
#### **Benefits**

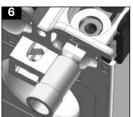


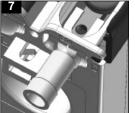




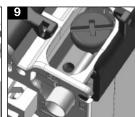


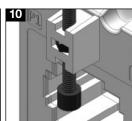






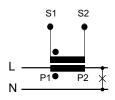






- Easy and quick mounting either on a panel or on a DIN-rail (see figure 1-2).
- Protection of screw terminals using specific sealable covers to assure always the best safety (see figure 3).
- Bridging of current transformer output without changing the connection of the secondary, so to avoid any output overvoltage during either the maintenance or the installation procedure (see figure 4).
- Easy output and earth connection (see fig. 5).
- Screw terminals compatible with any kind of wire terminals (see figure 6-7-8-9).
- Multiple screws provided with isolation cap screws to grant a strong and reliable fixing of the current transformer to the bus-bar (see figure 10).

#### **Wiring Diagram**



#### **Dimensions (mm)**

