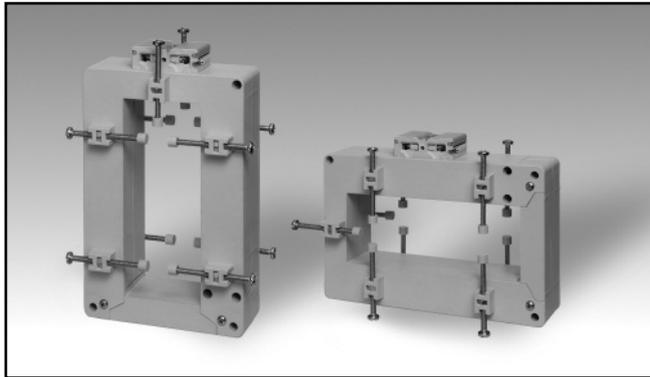


# Accessories

## AC Solid-core Current Transformer

### Type CTD-10V / CTD10-H ( max 50x125 mm)

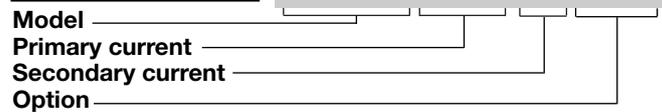


- Bus-bar type solid-core current transformer
- Class 0.5 accuracy
- Currents from 400 A to 4000 A
- Up to 10 Bus-bar isolated fixing screws
- Double screw terminals (up to 8-wire connections)
- Sealable terminal block covers

### Product Description

Solid-core current transformer with bus-bar mounting facility. Rated primary currents from 400 A to 4000 A.

### Ordering Key **CTD-10V 4000 5A XXX**



### Type Selection

Model	Primary current	Secondary current	Option
CTD-10V: vertical mounting	From 400A to 4000A (Refer to the Range Table)	1A (on request) 5A	XXX: none
CTD-10H: horizontal mounting			XTX: tropicalization

### Input Specifications

Operating frequency	48 to 62 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 $I_{th}$ $I_{dyn}$	Typical 100 $I_n$ / 1 s 2.5 $I_{th}$ The short-time thermal current $I_{th}$ is anyway limited by the cable/bus-bar size
Extended current rating	120%
Security factor (FS)	≤ 5 (Class: 0.5, 1 and 3)

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 158°F) (R.H. < 90% non condensing @ 40°C)
Approvals	CE
Connection Cable cross section area	Screw type From 1.5 to 6 mm <sup>2</sup> 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 (without sealable terminal covers) IP20 (with sealable terminal block covers + wire terminals)
Bus-bar size	Max. 50x125 mm
Weight	From 450 to 700 g

### General Specifications

Standards	According to EN60044-1
Housing	ABS, self-extinguishing: UL 94 V-0
Mounting	Bus-bar mounting
Standard accessories	Two terminal block screws. Ten bus-bar fixing screws. Ten plastic caps for bus-bar fixing screws. Two sealable terminal block covers.
Special features	1 A secondary current, Tropicalization

### Output Specifications

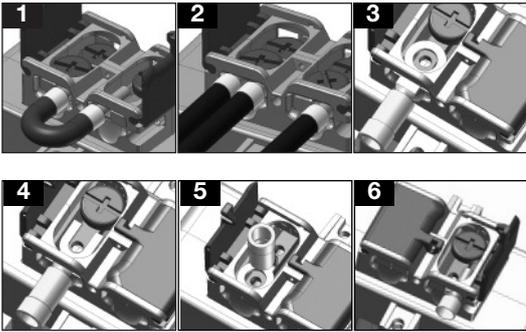
Rated secondary current	5 A or 1 A
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## Range Table

Model CTD-10V and CTD-10H from 400A to 1200A			
Primary Current	Burden (VA)		
A	CL 0.5	CL 1	CL 3
400	1	7	10
500	3	10	14
600	5	12	17
700	8	15	20
750	10	15	20
800	10	15	20
1000	12	20	25
1200	15	25	30

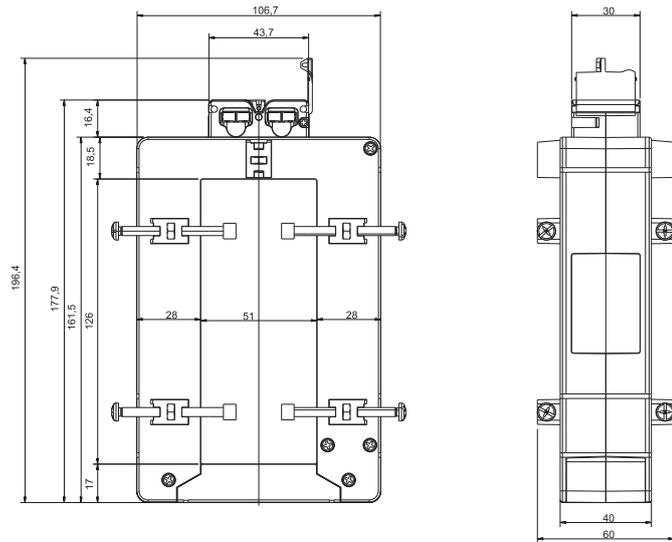
Model CTD-10V and CTD-10H from 1250A to 4000A			
Primary Current	Burden (VA)		
A	CL 0.5	CL 1	CL 3
1250	15	25	30
1500	20	30	40
1600	20	30	40
2000	25	40	50
2500	30	50	60
3000	30	50	60
3200	30	50	60
4000	30	50	60

## Benefits

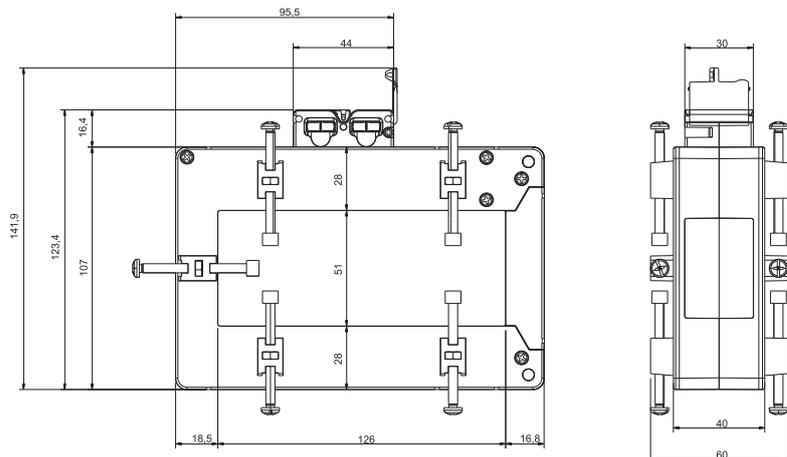


- Bridging of current transformer output without changing the connection of the secondary, so to avoid any output overvoltage during either the maintenance or the installation procedure (see figure 1).
- Easy output and earth connection (see fig. 2).
- Screw terminals compatible with any kind of wire terminals (see figure 3-4-5-6).

## Dimensions Vertical mounting (mm)



## Dimensions Horizontal mounting (mm)



## Wiring Diagram

