

Accessories

AC Split-Core Current Transformer

Type CTD-9S (max 35x125 mm)

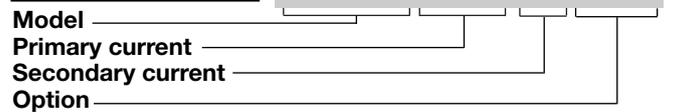


- Bus-bar type split core current transformer
- Class 1 accuracy
- Currents from 400 A to 4000 A
- Up to 10 Bus-bar isolated fixing screws
- Double screw terminals (up to 8-wire connections)
- Sealable terminal block covers
- Sealable fixing split-core screws

Product Description

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

Ordering Key CTD-9S 4000 5A XXX



Type Selection

Primary current	Secondary current	Option
From 400A to 4000A (Refer to the Range Table)	1A (on request) 5A	XXX: none XTX: tropicalization (on request)

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: 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 ² 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. 35x125 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 cable/bus-bar fixing screws. Ten plastic caps for cable/bus-bar fixing screws. Two sealable terminal block covers.
Special features	1 A secondary current, Tropicalization

Output Specifications

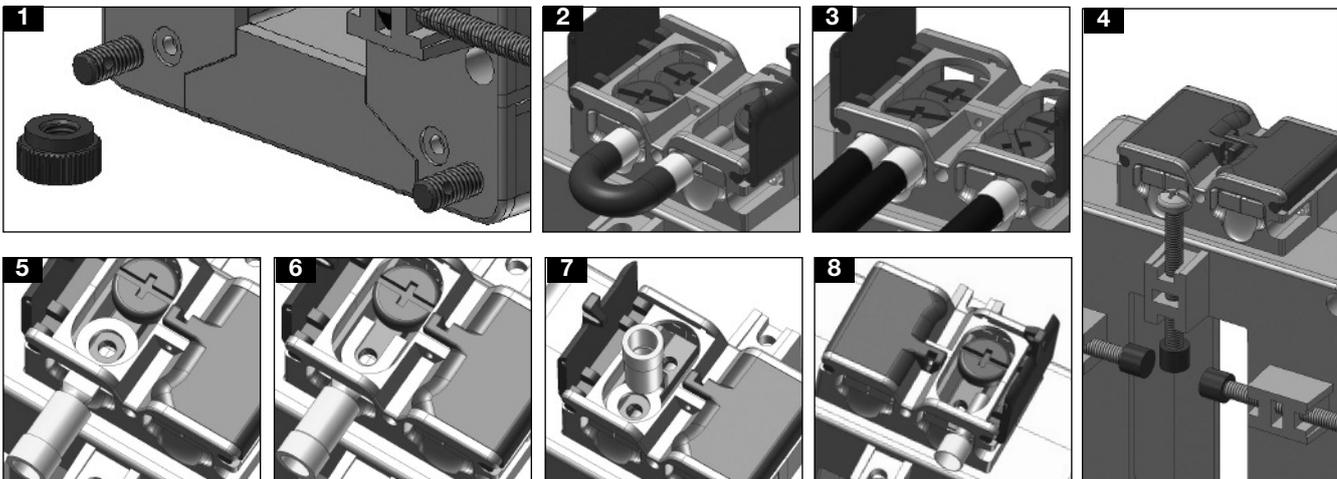
Rated secondary current	5 A or 1 A
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Range Table

Model CTD-9S from 400A to 1200A		
Primary Current	Burden (VA)	
	CL 1	CL 3
400		3
500	2	4
600	4	6
700	4	8
750	4	8
800	4	8
1000	6	10
1200	8	12

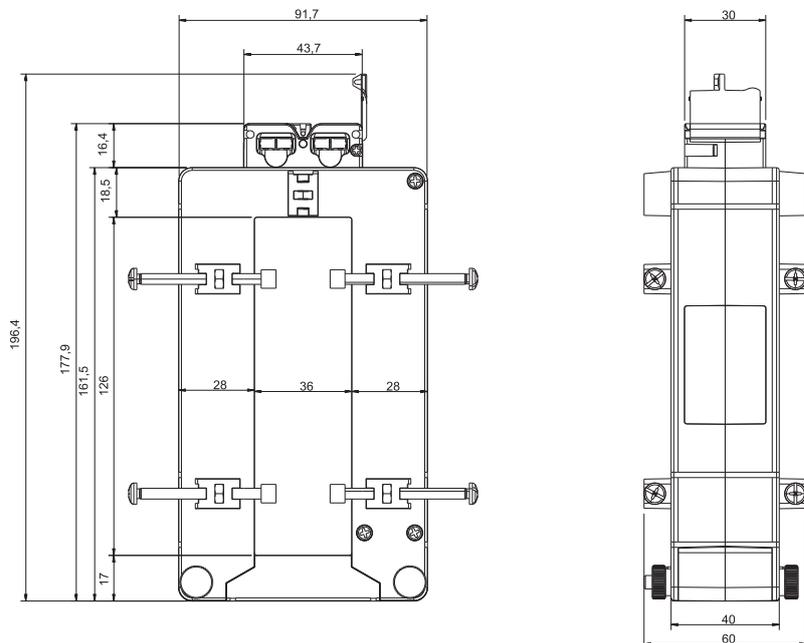
Model CTD-9S from 1250A to 4000A		
Primary Current	Burden (VA)	
	CL 1	CL 3
1250	8	12
1500	10	15
1600	10	15
2000	15	20
2500	20	25
3000	25	30
3200	25	30
4000	25	30

Benefits



- Easy way to open and close the CT core by the dedicate selectable screws (see figure 1).
- 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 2).
- Easy output and earth connection (see fig. 3).
- Multiple screws provided with isolation cap screws to grant a strong and reliable fixing of the current transformer to the bus-bar (see figure 4).
- Screw terminals compatible with any kind of wire terminals and protection of screw terminals using specific sealable covers to assure always the best safety (see figure 5-6-7-8).

Dimensions (mm)



Wiring Diagram

