Accessories AC Split-Core Current Transformer

Type CTD-5S (max 26x32 mm)





Product Description

Split-core current transformer with bus-bar mountng facility.

Rated primary currents from 100 A to 400 A.

Bus-bar type split core current transformer

- Class 1 accuracy
- Currents from 100 A to 400 A
- Up to 6 Bus-bar isolated fixing screws
- Double screw terminals (up to 8-wire connections)
- Sealable terminal block covers
- Sealable fixing split-core screws

Ordering Key CTD-55 400 5A XXX

Model	
Primary current ——	
Secondary current —	
Option	

Type Selection

Primary current	Secondary current	Option	Option	
From 100A to 400A	1A (on request)	XXX:	no	
(Refer to the Range Table)	5A	XTX:	tro	

one tropicalization (on request)

Input Specifications

On eventing frequency	48 to 62 Hz
Operating frequency	46 10 62 112
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)

General Specifications

Standards	According to EN61869-2
Housing	ABS, self-extinguishing: UL 94 V-0
Mounting	Bus-bar mounting
Standard accessories	Two terminal block screws. Six cable/bus-bar fixing screws. Six plastic caps for cable/bus-bar fixing screws. Two sealable terminal block covers.
Special features	1 A secondary current, 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 158°F) (R.H. < 90% non condensing @ 40°C)
Approvals	CE, cURus and CSA
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)
Cable diameter	Max. 26 mm
Bus-bar size	Max. 26x32 mm
Weight	From 450 to 700 g

Output Specifications

Rated secondary current

5 A or 1 A



Range Table

Model CTD-5S from 100A to 400A			
Primary Current	Burden (VA)		
A	CL 1	CL 3	
100 (@60°C/140°F)	-	1.5	
125 (@60°C/140°F)	1	1.5	
150 (@60°C/140°F)	1.5	2.5	
200 (@60°C/140°F)	1.5	5	
250 (@60°C/140°F)	1.5	5	
300 (@50°C/122°F)	2.5	7.5	
400 (@50°C/122°F)	5	10	



Wiring Diagram

Benefits



- Easy way to open and close the CT core by the dedicate seleable 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)



