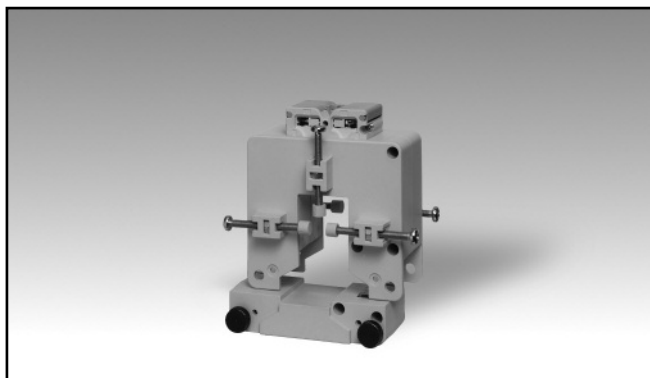


Accessories

AC Split-Core Current Transformer

Type CTD-5S (max 26x32 mm)

CARLO GAVAZZI



- 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

Product Description

Split-core current transformer with bus-bar mounting facility. Rated primary currents from 100 A to 400 A.

Ordering Key CTD-5S 400 5A XXX

Model CTD-5S
 Primary current 400
 Secondary current 5A
 Option XXX

Type Selection

Primary current	Secondary current	Option
From 100A to 400A (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)

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. 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

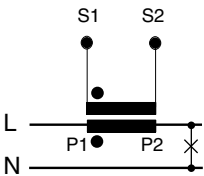
Rated secondary current	5 A or 1 A
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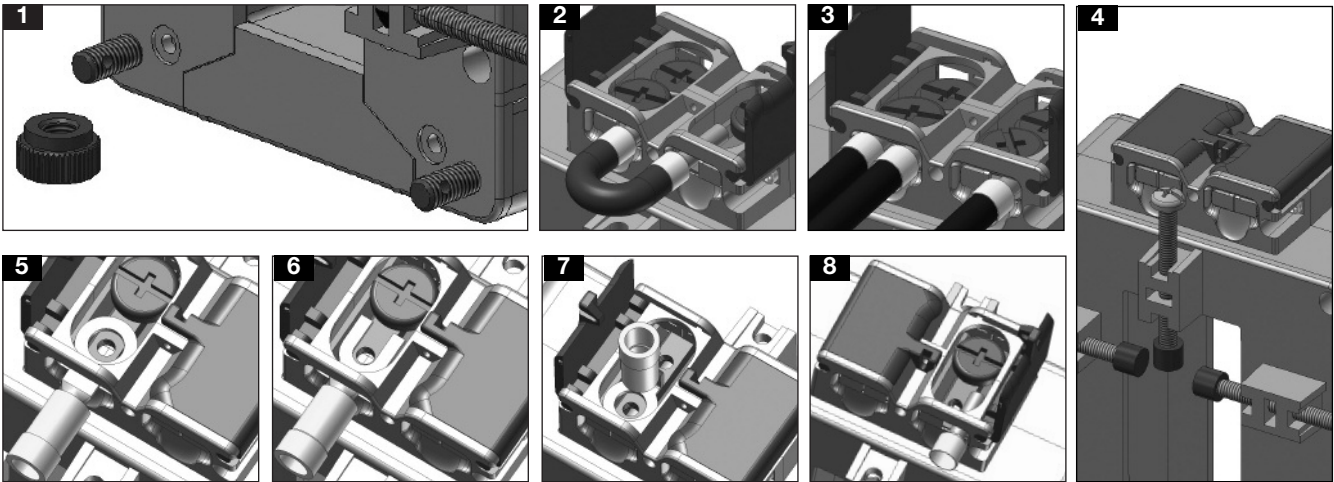
Range Table

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 sealeable 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)

