Accessories AC Current Transformer (max 51x15 mm bus-bar) Type CTD-3X

CARLO GAVAZZI



Product Description

Cable/Bus-bar type current transformer with DIN-rail/ bus-bar and panel mounting facility.

Rated primary currents from 50 A to 800 A.

- Bus-bar type current transformer
- •0.5 class, currents from 50 to 800 A
- Integrated DIN-rail mounting holder
- Removable panel fixing clips
- Up to 6 Bus-bar isolated fixing screws
- Double screw terminals (up to 8-wire connections)
- Sealable terminal block covers

Ordering Key CTD-3X 800 5A XXX

Optional fixing kit: CTD-kit

Type Selection

Primary current	Secondary current	Option	
From 50 to 800A (Refer to Range Table)		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 _{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)

General Specifications

Standards	According to EN61869-2	
Housing	ABS, self-extinguishing: 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 plastic caps for cable/bus-bar fixing screws. Two panel mounting fixing clips. Two sealable terminal block covers.	
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, 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 IP20 (with sealable terminal block covers + wire terminals)
Cable diameter	Max. 41 mm
Bus-bar size Horizontal Vertical Weight	Max. 51x15; 40x20: 32x32 mm Max. 40x20 mm From 550 to 700 g

Output Specifications

Rated secondary current

5 A or 1 A



Range Table

Model CTD-3X from 50A to 200A				
Primary Current	Burden (VA)			
Α	CL 0.5	CL 1	CL 3	
50 (@60°C/140°F)			1.75	
60 (@60°C/140°F)			2	
70 (@60°C/140°F)			2.5	
75 (@60°C/140°F)			3	
80 (@60°C/140°F)			3	
100 (@60°C/140°F)		2	3.5	
120 (@60°C/140°F)		2.25	4	
125 (@60°C/140°F)		2.5	4.5	
150 (@60°C/140°F)	2.25	3	6	
160 (@60°C/140°F)	2.5	3.5	6.5	
200 (@60°C/140°F)	3	4.5	8.5	

Model CTD-3X from 250A to 800A					
Burden (VA)					
CL 0.5	CL 1	CL 3			
3.5	6.5	10.5			
7	10	13			
9	14	17			
14	18	21			
17	21	24			
22	26	29			
24	28	31			
25	29	32			
	E CL 0.5 3.5 7 9 14 17 22 24	Burden (VA CL 0.5 CL 1 3.5 6.5 7 10 9 14 14 18 17 21 22 26 24 28			

Benefits



















^r Dimensions (mm)



- 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

