Accessories
AC Current Transformer (max 23mm Ø cable)
Type CTD-1X

• Cable and bus-bar type current transformer
• 0.5 class, currents from 50 to 300 A
• Removable DIN-rail mounting holder
• Removable panel fixing clips
• 2 cable/bus-bar isolated fixing screws
• Double screw terminals (up to 8-wire connections)
• Sealable terminal block covers

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

Rated primary currents from 50 A to 300 A.

Ordering Key
CTD-1X 100 5A XXX

Model
Primary current
Secondary current
Option

Optional fixing kit: CTD-kit

Type Selection
Primary current
Secondary current
Option

From 50 to 300A
(Refer to Range Table)

1A

5A

XXX: none

XTX: tropicalization

Input Specifications
Operating frequency
Max. system voltage
Rated insulation level
Insulation class
Short-time current rating
Extended current rating
Security factor (FS)

48 to 62 Hz
0.72 kV
3 kV/1 min. @ 50 Hz
E (max 75°C)
Typical 100 I /1 s
2.5 Ii
The short-time thermal current Ii is anyway limited by the cable/bus-bar size
120%

≤ 5 (Class: 0.5, 1 and 3)

Special features
Two panel mounting fixing clips.
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 mm²
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)

Output Specifications
Rated secondary current
5 A or 1 A

Specifications are subject to change without notice  CTD-1X DS ENG 140116
Range Table

<table>
<thead>
<tr>
<th>Model CTD-1X from 50A to 100A</th>
<th>Model CTD-1X from 120A to 300A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primary Current</strong></td>
<td><strong>Burden (VA)</strong></td>
</tr>
<tr>
<td>A</td>
<td>CL 0.5</td>
</tr>
<tr>
<td>50 (@60°C/140°F)</td>
<td>1</td>
</tr>
<tr>
<td>60 (@60°C/140°F)</td>
<td>1</td>
</tr>
<tr>
<td>70 (@60°C/140°F)</td>
<td>1.5</td>
</tr>
<tr>
<td>75 (@60°C/140°F)</td>
<td>1</td>
</tr>
<tr>
<td>80 (@60°C/140°F)</td>
<td>1.25</td>
</tr>
<tr>
<td>100 (@60°C/140°F)</td>
<td>1.5</td>
</tr>
<tr>
<td>120 (@50°C/122°F)</td>
<td>2.5</td>
</tr>
</tbody>
</table>

Benefits

- 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 insulation caps to grant a strong and reliable fixing of the current transformer to the bus-bar (see figure 10).

Wiring Diagram

- 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 insulation caps to grant a strong and reliable fixing of the current transformer to the bus-bar (see figure 10).

Dimensions (mm)