Specifications are subject to change without notice  CTD-10 S DS ENG 140116

Accessories
AC Split-Core Current Transformer
Type CTD-10S (max 50x126 mm)

• Bus-bar type split-core current transformer
• Class 1 accuracy
• Currents from 400 A to 3200 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 3200 A.

Ordering Key
CTD-10S 2000 5A XXX

Model
Primary current
Secondary current
Option

CTD-10S
2000
5A
XXX:
none

Type Selection
Primary current  Secondary current  Option
From 400A to 3200A (Refer to the Range Table)  1A (on request)  5A

Input Specifications
Operating frequency 48 to 62 Hz
Max. system voltage 0.72 kV
Rated insulation level 3 kV/1 min. @ 50 Hz
Rated primary currents from 400 A to 3200 A

Extended current rating refer to the Range Table
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. Ten bus-bar fixing screws. Ten plastic caps for 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

Working temperature -25°C to refer to the Range Table (-13°F to: refer to the Range Table) (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)

Approval
CE
UL/cURus and CSA (400A to 2000A)

Connection
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 (with sealable terminal covers)
IP20 (with sealable terminal block covers + wire terminals)

Bus-bar size Max. 51x125 mm
Weight From 450 to 700 g

AC Split-Core Current Transformer
Type CTD-10S (max 50x126 mm)
Range Table

<table>
<thead>
<tr>
<th>Model CTD-10S from 400A to 1200A</th>
<th>Model CTD-10S from 1250A to 3200A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primary Current</strong></td>
<td><strong>Temperature</strong></td>
</tr>
<tr>
<td>A</td>
<td>@60°C/140°F</td>
</tr>
<tr>
<td>400</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>1200</td>
<td></td>
</tr>
</tbody>
</table>

(*) A max overload of 120% for 1 min. every 30 min. is allowed.
(+ ) A continuous overload of 120% of the range is allowed @ amb. temp. 40°C max.

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)

Wiring Diagram

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