## Accessories

AC Current Transformer (max 30x 10 mm bus-bar) Type CTD-2X


## Product Description

Cable/Bus-bar type current ty. Rated primary currents transformer with DIN-rail/bus- from 40 A to 600 A .
bar and panel mounting facili-

- Bus-bar type current transformer
- 0.5 class, currents from 40 to 600 A
- Integrated DIN-rail mounting holder
- Removable panel fixing clips
- 2 Bus-bar isolated fixing screws
- Double screw terminals (up to 8-wire connections)
- Sealable terminal block covers


## Ordering Key CTD-2X 200 5A XXX Model <br> Primary current <br> Secondary current <br> Option

## Optional fixing kit: CTD-kit

## Type Selection

| Primary current | Secondary current | Option |
| :---: | :---: | :---: |
| From 40 to 600A <br> (Refer to Range Table) | $\begin{aligned} & \text { 1A } \\ & 5 A \end{aligned}$ | XXX: none <br> XTX: tropicalization |

## Input Specifications

| Operating frequency | 45 to 65 Hz |
| :--- | :--- |
| Max. system voltage | 0.72 kV |
| Rated insulation level | $3 \mathrm{kV} / 1 \mathrm{~min}$ @ 50 Hz |
| Insulation class | $\mathrm{E}\left(\max 75^{\circ} \mathrm{C}\right)$ |
| Short-time current rating | Typical $100 \mathrm{I}_{\mathrm{n}} / 1 \mathrm{~s}$ <br> $I_{\mathrm{th}}$ |
| $2.5 \mathrm{I}_{\mathrm{th}}$ |  |
| $\mathrm{I}_{\text {dyn }}$ | The short-time thermal <br> current $\mathrm{I}_{\text {th }}$ is anyway limited <br> by the cable/ bus-bar size |
| Extended current rating | $120 \%$ |
| Security factor (FS) | $\leq 5$ (Class: $0.5,1$ and 3) |
|  |  |

## General Specifications

| Standards | According to EN61869-2 |
| :--- | :--- |
| Housing | ABS, self-extinguishing: <br> UL 94 V-0 |
| Mounting | DIN-rail bus-bar <br> and panel mounting |
| Standard accessories | Two terminal block screws. <br> Two cable/bus-bar <br> fixing screws. <br> Two sealable terminal block <br> covers. |
|  | Two panel mounting <br> fixing clips. |
|  | Two plastic caps for <br> cable/bus-bar fixing screws. |
| Optional accessories | Extended fixing kit: CTD-kit <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br> Two panel mounting <br> fixing clips. <br> Six cable/bus-bar fixing <br> screws. |
|  |  |


|  | Six plastic caps for cable/bus-bar fixing screws. |
| :---: | :---: |
| Special features | 1 A secondary current, Tropicalization |
| Working temperature | $-25^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}\left(-13^{\circ} \mathrm{F}\right.$ to $140^{\circ}$ F) (R.H. < $90 \%$ non condensing @ $40^{\circ} \mathrm{C}$ ) |
| Storage temperature | $-30^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}\left(-22^{\circ} \mathrm{F}\right.$ to $158^{\circ}$ F) (R.H. < $90 \%$ non condensing @ $40^{\circ} \mathrm{C}$ ) |
| Approvals | CE, cUrus and CSA |
| Connection Cable cross section area | Screw type <br> From 1.5 to $6 \mathrm{~mm}^{2}$ <br> Min/Max screws tightening torque relevant to terminal block screws: <br> From 1 to 2 Nm Max screws tightening torque relevant to the cable/bus-bar fixing screws: $0,3 \mathrm{Nm}$ |
| Protection degree | IP00 IP20 (with sealable terminal block covers + wire terminals) |
| Cable diameter | Max. 24 mm |
| Bus-bar size Horizontal Vertical | Max. 32x5; 30x10; 25x20 mm Max $25 \times 12 \mathrm{~mm}$ |
|  |  |
| From 350 to 500 g |  |

## Output Specifications

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## Range Table

| Model CTD-2X from 40A to 125A |  |  |  |
| :---: | :---: | :---: | :---: |
| Primary Current | Burden (VA) |  |  |
| A | CL 0.5 | CL 1 | CL 3 |
| $40\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ |  |  | 1.25 |
| $50\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ |  |  | 1.5 |
| $60\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ |  |  | 2 |
| $70\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ |  |  | 2.5 |
| $75\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ |  | 1.75 | 2.5 |
| $80\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ |  | 2 | 2.75 |
| $100\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ |  | 2.5 | 3 |
| $120\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ |  | 2.75 | 3.75 |
| $125\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ | 2 | 2.75 | 3.75 |


| Model CTD-2X from 150A to 600A |  |  |  |
| :---: | :---: | :---: | :---: |
| Primary Current | Burden (VA) |  |  |
| A | CL 0.5 | CL 1 | CL 3 |
| $150\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ | 3 | 4 | 5 |
| $160\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ | 3 | 4 | 5 |
| $200\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ | 4 | 5 | 6.5 |
| $250\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ | 5.5 | 7 | 8 |
| $300\left(@ 60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}\right)$ | 7 | 8.5 | 9.5 |
| $400\left(@ 50^{\circ} \mathrm{C} / 122^{\circ} \mathrm{F}\right)$ | 12 | 13.5 | 14.5 |
| $500\left(@ 50^{\circ} \mathrm{C} / 122^{\circ} \mathrm{F}\right)$ | 14 | 15.5 | 16.5 |
| $600\left(@ 40^{\circ} \mathrm{C} / 104^{\circ} \mathrm{F}\right)$ | 17.5 | 19 | 20 |

## 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 isolation cap screws to grant a strong and reliable fixing of the current transformer to the bus-bar (see figure 10).


## Wiring Diagram



Dimensions (mm)


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 SPCT 62/40 250/5 A VA 2.5 CL 0.5 SPCT 62/40 250/5 A VA 3 CL 1 SPCT 62/40 300/5 A VA 3 CL 0.5 SPCT 62/40 400/5 A VA 3.75 CL 0.5 HPT205NBJ-1 HCT204KFH HCT20K-QD HPT205A/F HCT-1(80)AH HCT916HBT-1W CT100A PVS100/230/110V

