MEDIUM VOLTAGE PRODUCTS

# Outdoor current transformers TPO xx.xx Rated voltages: 25 kV and $40,5 \mathrm{kV}$ Rated currents: $10 \div 3000 \mathrm{~A}$ 



TPO 6x.xx


TPO 7x.xx

The TPO xx.xx current transformers are cast in hydrophobic epoxy resin, capable of withstanding outdoor environmental conditions and designed for insulation voltages up to:

- 25 kV for TPO 6x.xx, - 40,5kV for TPO 7x.xx, ings must be earthed during transformer operation. The transformer body is fixed by using four screws. For ease of handling and assembly the transformer is supplied with suspension lugs. The secondary winding is led out into a cast secondary terminal board covered with a sealed cover.
The transformers are designed and manufactured to conform with the requirements and recommendations of IEC 61869-2 standard.


## Terminals

Primary terminals are electro-tin copper. Clamp-type secondary terminals accommodate up to $6 \mathrm{~mm}^{2}$ wire.

## Junction box

The junction box is equipped with PG21 cable gland. The box is casted together with transformer. Junction box cover is screwed to junction box with additional protection sealing.

## Mounting

The TPO is mounted by corrosion-resistant aluminum rails and can be mounted in vertical positions (as visible on the pictures above).
Stress relief devices should be used to support cable connections.

## Test reports

Test reports are stored electronically and can be e-mailed in various formats at the time of shipment.

Parameters

|  |  | TPO 6x.xx | TPO 7x.xx |
| :---: | :---: | :---: | :---: |
| Rated primary currents ${ }^{17}$ | [A] | $10 \div 3000$ |  |
| Primary current changeover | [A] | 20-40 $\div 600-1200$ |  |
| Rated secondary currents ${ }^{\text {2) }}$ | [A] | 5;1 |  |
| Rated frequency | [Hz] | 50;60 |  |
| Insulation levels | [kV] | $\begin{aligned} & 17.5 / 38 / 95 \\ & 24 / 50 / 125 \\ & 25 / 55 / 125 \end{aligned}$ | $\begin{array}{r} 36 / 70 / 170 \\ 38.5 / 80 / 180 \\ 40.5 / 95 / 200 \\ \hline \end{array}$ |
| Rated short - time thermal current [1s] | [kA] | 100 |  |
| Max. rated burden/ classes ${ }^{3)}$ | [VA/cl] | $\begin{gathered} 3 \div 60 / \\ 0,2 ; 0,2 \mathrm{~S} ; 0,5 ; 0,5 \mathrm{~S} ; 1 ; 3 ; \\ 5 \mathrm{P} ; 10 \mathrm{P} \end{gathered}$ |  |
| Insulation class |  | E |  |
| Ambient temperature | [ ${ }^{\circ} \mathrm{C}$ ] | -60... +55 |  |
| Reconnectable |  | primary or secondary |  |
| Weight | [kg] | 62 | 90 |
| Creepage distance | [mm] | 1100 | 1600 |

1) Different primary currents can also be provided to special order.
2) It is possible to combine different values in one transformer.
3) Other classes are available on request.

## Marking of the current transformer outlets


a) Single-core design

b) Double-core design

c) Three-core design

## Basic marking


1...non-reconnectable on primary side
2... reconnectable on primary side
0...up to 600 A multi-turn
1...up to 400 A one-turn
2...up to 600 A one-turn
3...up to 1250 A one-turn
4...up to 1500 A one-turn
5...up to 2000 A one-turn
6...up to 3000 A one-turn
design

d) Single-core design recconectable on secondary side

e) Double-core design, reconnectable on the secondary side

f) Double-core design, reconnectable on the primary side

TPO 60.11


TPO 61.11-63.11


TPO 60.12


TPO 64.11-66.11


TPO 70.11


TPO 71.11-76.11

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TPO 70.12

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