KOLT 072 transformer type has no housing and primary winding. Under operating conditions, the bushing insulator, which is the main current transformer insulation, also serves as the primary winding. The secondary windings are evenly wound on the circumference of the toroidal core.

Secondary winding insulation is made of polyester tape (MYLAR). Current transformers weighing 100 kg or more consist of several parts to facilitate both transport and installation. Each individual part contains the following information: a serial number which coincides with the one stated on the rating plate, and markings for primary and secondary winding terminals.

### Technical parameters

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary current range (I_{pn})</td>
<td>([A]) 100 A – 5 000 A (higher value on demand)</td>
</tr>
<tr>
<td>Rated secondary current (I_{sn})</td>
<td>([A]) 1A ÷ 5 A (different value on demand)</td>
</tr>
<tr>
<td>Insulation level</td>
<td>([kV]) 0.72/3/-</td>
</tr>
<tr>
<td>Range of rated output (S_{n})</td>
<td>([VA]) 1 VA - 90 VA</td>
</tr>
<tr>
<td>Number of windings</td>
<td></td>
</tr>
<tr>
<td>Conformity with standards</td>
<td>IEC, SEV, VDE, ANSI, BS, CAN, CSA, GOST</td>
</tr>
<tr>
<td>Accuracy class acc. to IEC</td>
<td>0.2s; 0.5s; 0.2; 0.5; 1; 3; 5; 5P; 10P; PX</td>
</tr>
<tr>
<td>FS</td>
<td>5; 10</td>
</tr>
<tr>
<td>ALF</td>
<td>5; 10; 15; 20; 25; 30</td>
</tr>
<tr>
<td>Rated frequency (f)</td>
<td>([Hz]) 50, 60</td>
</tr>
<tr>
<td>Short-time withstand thermal current (I_{th}) (1\ s)</td>
<td>([A]) 100 x (I_{pn}) max. 100 kA</td>
</tr>
<tr>
<td>Peak withstand current (I_{dyn})</td>
<td>([A]) 2.5 x (I_{th}) max. 250 kA</td>
</tr>
<tr>
<td>Insulation class acc. to IEC</td>
<td>B</td>
</tr>
<tr>
<td>Min. inside diameter (\Omega \ d)</td>
<td>([mm]) min. 30 mm depending on parameters</td>
</tr>
<tr>
<td>Max. outside diameter (\Omega \ D)</td>
<td>([mm]) max. 700 mm depending on parameters (higher value on demand)</td>
</tr>
<tr>
<td>Height (h)</td>
<td>([mm]) max. 250 mm depending on parameters (higher value on demand)</td>
</tr>
<tr>
<td>Length of leads (L)</td>
<td>([mm]) 1 m (different value on demand)</td>
</tr>
</tbody>
</table>

*transformers with other dimensions and parameters are available upon request.
Versions available
- Single phase
- With one winding
- With one or several taps
- Insulation – polyester foil (standard)
- Without housing
- Without primary winding

Application
KOLT type current transformers can be mounted inside power transformers. They will operate in oil, and under moderate and tropical climate conditions. These current transformers are designed to supply measurement and protection circuits of power systems operating under a rated frequency of 50 or 60Hz.

Marking
Each current transformer is fitted with a rating plate in accordance with the IEC 61869-2 Standard. Values of rated voltage and the rated power frequency test voltage of the insulation (stated on the rating plate) refer to the insulation of the secondary windings. Primary and secondary terminals are directly marked on the current transformer.

Transport
During transportation, current transformers must be protected against humidity and heavy shocks. Current transformers weighing more than 50 kg and which are especially sensitive to shocks are transported on wooden pallets.

Installation
During installation of current transformers the following instructions should be observed:
- Secondary winding marked 1S1 - 1S2 should be placed on the top
- Keep the same polarization for all parts of the current transformer (P1 – P2 – P1 – P2 markings)
- Avoid shocks

Compliance with standards
Current transformers meet the requirements of the following standards: IEC 61869-2. At the client’s request we manufacture current transformers that meet the requirements of SEV, VDE, ANSI, BS, CAN, CSA, GOST standards.

Warranty
A two-year warranty period is granted from the date the transformer starts to operate. However, a maximum warranty period of three years is granted from the time of purchase. The warranty only covers manufacturing defects and does not include defects due to:
- Incorrect transport
- Incorrect storage
- A failure to follow instructions correctly during installation and operation
- Incorrect selection of the transformer for the electric power system

Ordering data
The order must contain the following:
- Name and type of current transformer
- Rated primary current / rated secondary current Ipn/Isn [A]
- Short-time thermal current Ith [kA] for 1 s
- Rated output power and accuracy class of each tap Sn [VA]
- Limit transformer dimensions (min. inside diameter, max. outside diameter, max. height)
- Length of leads
- Standard
- Quantity

Order example
Current transformer type KOLT
Ratio 1200/5 A
Ith = 72 kA (1s), Idyn = 180 kA
Burden 15 VA, class 0.5 FS10
Min. inside diameter Ød = 150 mm
Max.outside diameter ØD = 300 mm
Max.height h = 200 mm
Length of leads L = 1.5 m
Standard IEC 61869-2
Quantity 9 Pcs.
The data and illustrations in this catalogue are not binding. We reserve the right to make changes to the content, in the course of technical development of the product.