

KOLT 072 (for oil-immersed power transformers) Indoor current transformers

Description

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

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

*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:

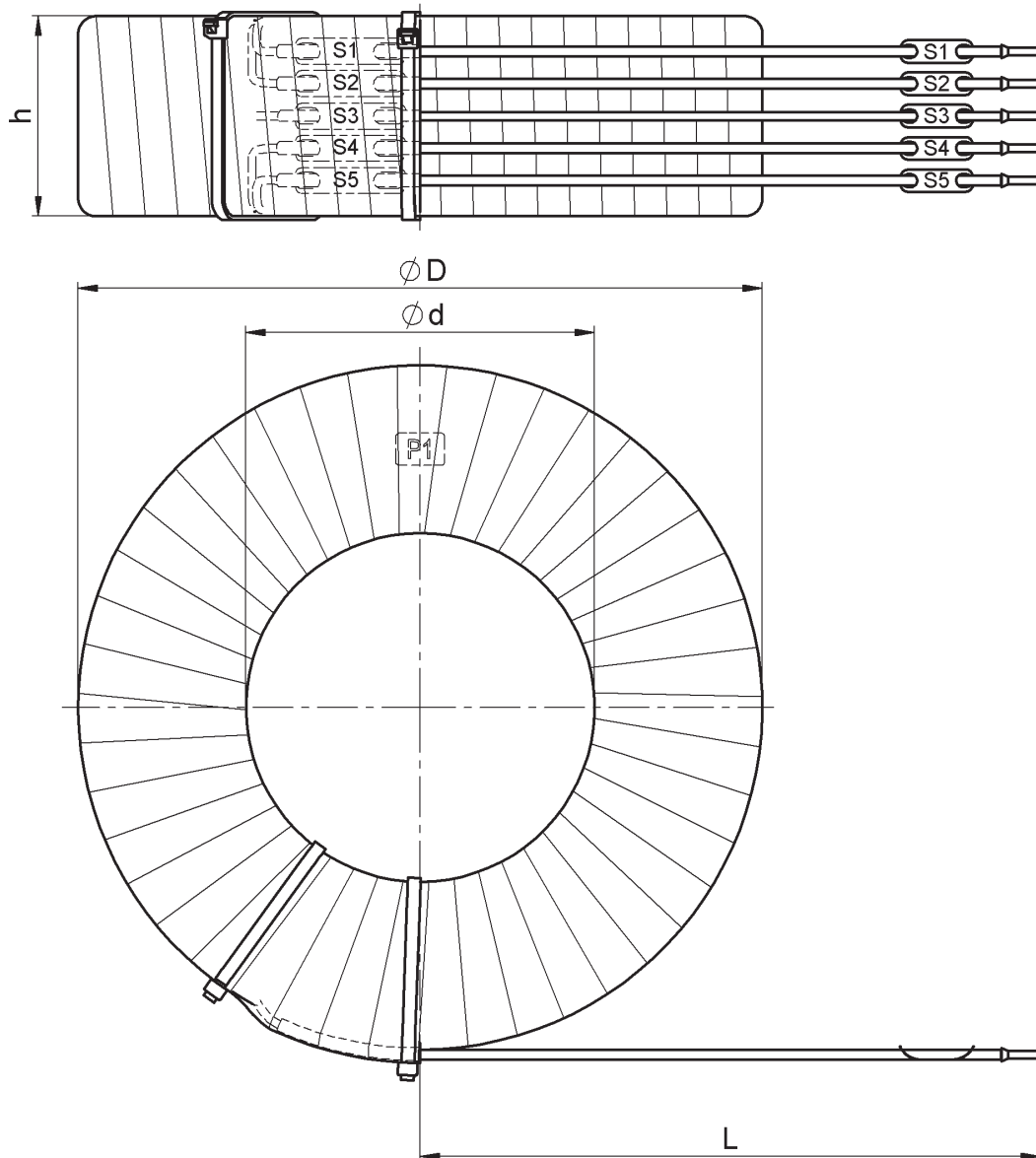
- Name and type of current transformer
- Rated primary current / rated secondary current I_{pn}/I_{sn} [A]
- Short-time thermal current I_{th} [kA] for 1 s
- Rated output power and accuracy class of each tap S_n [VA]
- Limit transformer dimensions (min. inside diameter, max. outside diameter, max. height)
- Length of leads
- Standard
- Quantity

Order example

Current transformer type	KOLT
Ratio	1200/5 A
$I_{th} = 72$ kA (1s),	$I_{dyn} = 180$ kA
Burden 15 VA,	class 0.5 FS10
Min. inside diameter	$\varnothing d = 150$ mm
Max.outside diameter	$\varnothing D = 300$ mm
Max.height	$h = 200$ mm
Length of leads	$L = 1.5$ m
Standard	IEC 61869-2
Quantity	9 Pcs.

Dimensions

KOLT 072 dxDxh



Drawing n.

1VL4900401R0101

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