

ASA

INDOOR EPOXY RESIN CURRENT TRANSFORMERS

HIGHEST VOLTAGE FOR EQUIPMENT UP TO 36 kV

Application

ASA type current instrument transformers are single-phase and single pole insulated transformers. They are used to step-down current to defined values, and thus provide standardized, useable levels of current in a variety of power monitoring, measurement and protection applications while insulating the measurement and protection equipment from high system voltage.

Transformers of this type are provided for indoor installation in various positions.

Description of Main Parts

ASA type transformers are designed for facilities with rated primary currents from 200 A to 3500 A. The transformers are produced without primary reconnection. When necessary, transformation ratios can be selected by using secondary winding taps.

Cores are made either of cold-rolled grain-oriented magnetic steel sheets or a high quality soft magnetic material, depending on the required accuracy class and rated primary current.

The main insulation is a mixture of quartz flour and two-component resin. After cross-linking at high temperatures, the mixture takes on excellent insulating characteristics and required mechanical features. Mixture preparation and casting of the active part is performed using gravity and under vacuum.

Primary terminals for rated continuous thermal currents from 240 A to 4200 A are shown on the draft. They are made of electrolytic copper or brass and can be corrosion protected through galvanic tinning or silver plating when necessary.

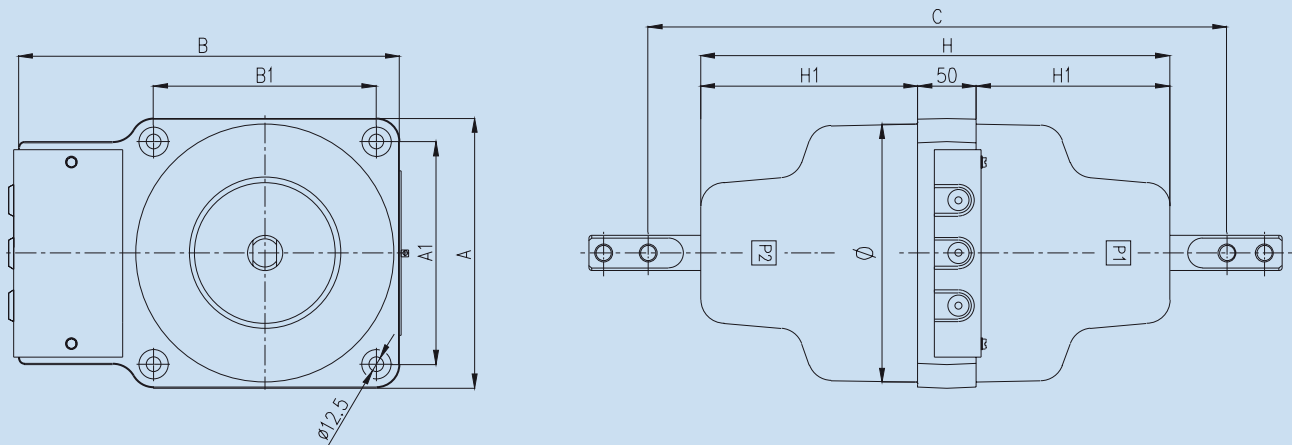
Secondary terminals are placed in a sealed box with U16 cable glands. They are M6 in size and are of stainless steel threaded bolt type. The protection level is IP40. The earthing terminal is marked with \perp and must be earthed.

The transformers can contain up to four protective or measurement cores. Primary winding is designed as a rod. Secondary windings are made of high quality enamelled copper wire.



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Size	Um (kV)	A1-B1 (mm)	A (mm)	B (mm)	C (mm)	H (mm)	H1 (mm)	Ø (mm)	Weight (kg)
1	12	190	230	325	520	420	185	220	35
2	24	210	250	345	670	570	260	240	45
3	36	230	270	365	830	730	340	260	65

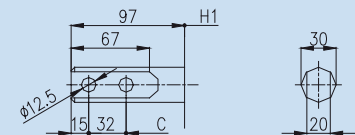
Technical Data

TRANSFORMER TYPE	ASA - 12	ASA - 24	ASA - 38
Highest voltage for equipment (kV)	12	24	36
Rated primary current (A)	from 200 A to 3500 A		
Rated secondary current (A)	1, 2 or 5		
Rated burden of measuring core (VA)	1.25; 2.5; 3.75; 5; 7.5; 10; 12.5; 15; 20; 25; 30; 40; 45; 50; 60		
Accuracy class of measuring core	0.1; 0.2; 0.2S; 0.5; 0.5S or 1		
Instrument security factor	5 or 10		
Rated burden of protection core (VA)	1.25; 2.5; 3.75; 5; 7.5; 10; 12.5; 15; 20; 25; 30; 40; 45; 50; 60		
Accuracy class of protection core	5P or 10P		
Accuracy limit factor	5; 10; 15; 20		
Rated short circuit current (I _{th})	up to 100 kA / 1s		
Power frequency withstand voltage (kV)	28	50	70
Lightning impulse withstand voltage (kV)	75	125	170
Test voltage of secondary windings (kV)	3		
Number of secondary cores	up to 4		

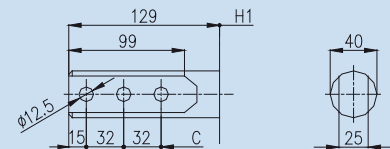
NOTE: given indicative values refer to our standard versions and vary depending on electrical, mechanical and environmental parameters specified in the customers' inquiry. These values are susceptible to change in the course of technical developments.

HV terminals for rated continuous thermal current

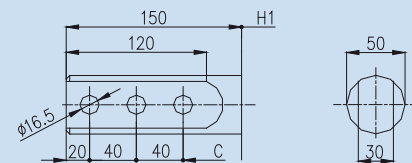
240 A up to 1200 A



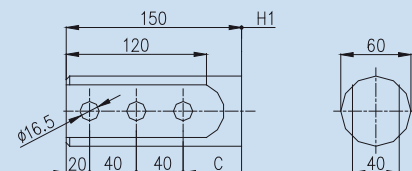
1250 A up to 2400 A



2500 A up to 3100 A



3200 A up to 4200 A



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Quality Assurance

Končar current transformers are designed in compliance with IEC, ANSI/IEEE, GOST, AS, IS, CAN/CSA, or any other relevant standard.

Product quality is assured through a certified quality standard, the ISO 9001. Končar - Instrument transformers Inc. is ISO 14001 and OHSAS 18001 certified, ensuring environmental and occupational health standards are met.