OUTDOOR EPOXY RESIN CAST CURRENT TRANSFORMERS

for highest voltage of equipment up to 36 kV

APE

APPLICATION

These transformers are used to separate measuring and protection equipment from high voltages and to transform the currents measured to the values required by the measuring and protection equipment.

STANDARDS

These transformers are produced in compliance with IEC, VDE, ANSI, BS and other standards.

DESCRIPTION OF MAIN PARTS

- The transformers are produced with primary reconnection 1:2 or without reconnection. Reconnection is very simple by re-arrangement of links at HV-terminals.
- Cores used in current transformers are made either of quality cold-rolled grain-oriented magnetic steel sheets or a high-quality soft magnetic material (Mumetal) depending on the required accuracy class.
- Low voltage winding is uniformly distributed around the circular core.
- High voltage winding is designed in such a way, that mechanical stresses due to thermal dilatation in case of short circuit currents are not transmitted to the main insulation of the transformer. The conductors used for windings are made of electrolytic copper.
- Main insulation of these instrument transformers is an epoxy compound based on cycloaliphatic resin for outdoor installation, cast in high vacuum and with superior dielectric and mechanical properties.
- Primary terminals are made of copper or yellow brass, and corrosion protected by galvanic nickel plating.
- Secondary terminals are made of stainless steel screws M8 (inox) and are placed inside the terminal box. The terminal marked with symbol ⏚ must be properly earthed. Terminal boxes is equipped with cable gland for cable of 16 mm diameter.
- The earthing screw (red marked) on the lower part of transformer has to be earthed.

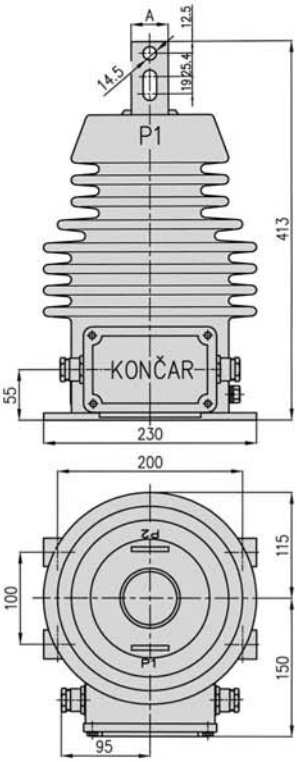
APE-24

APE-38

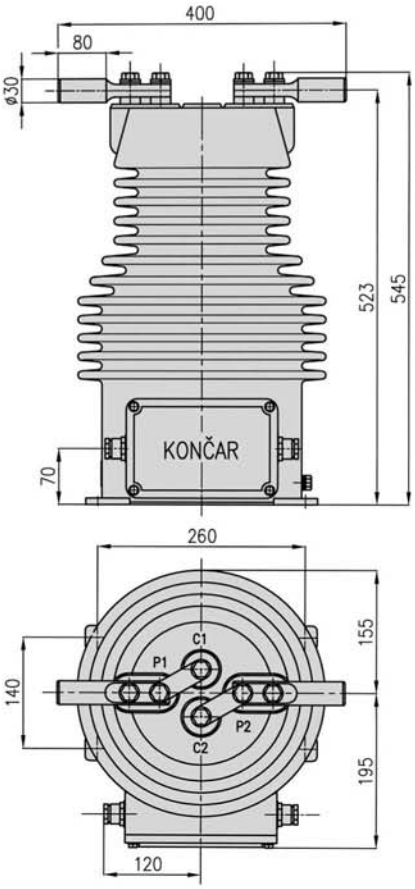
MAIN CHARACTERISTICS

		APE-24	APE-38	APE-38
Highest voltage of equipment	(kV)	24	36	36
Rated power-frequency short-duration withstand voltage	(kV)	50	70	70
Rated lightning-impulse withstand voltage	(kV)	125	170	170
Rated power-frequency short-duration withstand voltage of secondary windings	(kV)	3	3	3
Continuous thermal current	(Itth)	1,2 x In	1,2 x In	1,2 x In
Rated short-time thermal current	(Ith)	100 x In	100 x In	100 x In
Rated dynamic current	(Idyn)	250 x In	250 x In	250 x In
Creepage distance	(mm)	600	1000	1000
Rated primary current	(A)	up to 400	up to 800 up to 2 x 400	up to 800 up to 2 x 400
Rated secondary current	(A)	5 or 1	5 or 1	5 or 1
Number of cores		1	1 2	1 3
Core for measuring: Rated output Class and safety factor	(VA)	 10 0.5 FS 10	 15 or 30 0.5 FS 10	 15 or 30 0.5 FS 10
Core for protection: Rated burden Class and safety factor	(VA)	 7.5 10P10	 15 or 30 10P10	 15 or 30 10P10
Mass	(kg)	18	60 (size1)	88 (size 2)

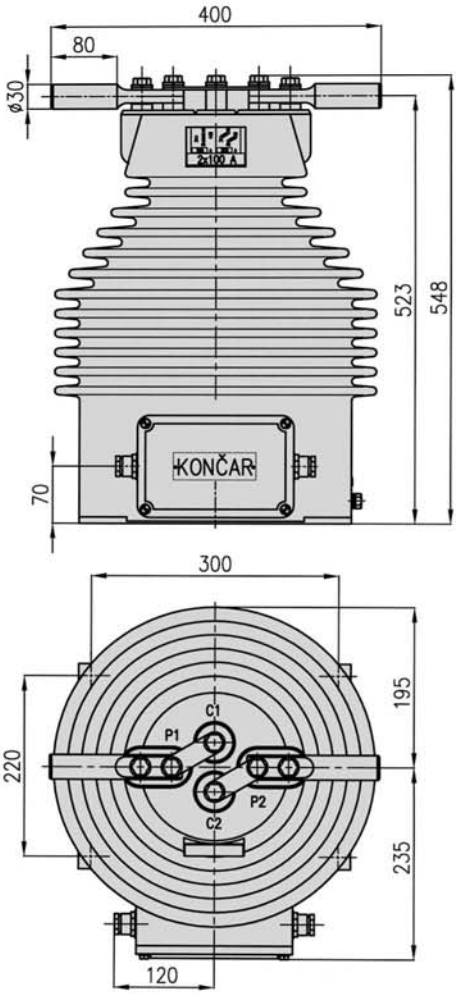
APE-24



APE-38 (SIZE 1)



APE-38 (SIZE 2)



Note : Data given in this prospect are for informative purposes only. With the view of constant improvement of quality of our product we reserve the right to changes.

GipaArt Zagreb

KONČAR
MJERNI TRANSFORMATORI d.d.

Josipa Mokrovića 10, HR 10090 ZAGREB,CROATIA
Tel: (++385 1) 37 94 074
(++385 1) 37 94 041; (++385 1) 37 94 112
Fax: (++385 1) 37 94 040; E-mail: mjt@koncar.tel.hr