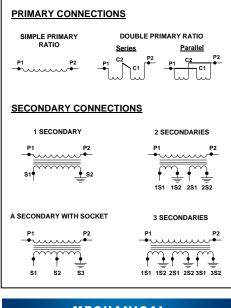


### CONNECTIONS



# MECHANICAL

<ul> <li>Tightening torque:</li> </ul>						
M8 Terminals:	6 N.m					
M16 Terminals:	45 N.m					
Earth terminal M12:	20 N.m					
Base fixings M16:	164 N.m					
Plinth's anchors:						

- from 250x250 to 350x350
- Approximate weight: 225 kg
- Pollution level IV or superior.
- Standard creepage distance: 1830 mm
- Arch distance: 610 mm
- Maximum size: 798 mm
- Outer diameter of the flange: 525 mm

## DESCRIPTION

# Current transformer for weathering with resin main insulation and porcelain enclosure.

High Voltage Current transformer for measuring and/or protecting up to 52 kV, used for measurement instruments, meters, relays and other similar devices.

It is designed considering installation in areas of high seismic activity.

**Primary and secondary winding and core:** The primary winding is made with copper plate lined with insulating paper with high dielectric and mechanical rigidity. The secondary winding is designed as a coil of enamelled electrolytic copper wire, with a thermal class higher than 180°C and G2 insulation. The magnetic core is composed of a magnetic griddle toroid of oriented grain of quality and size to be determined according to the characteristics of the transformer. The core is isolated from the secondary winding by a polyamide or cork capsule.

**Insulation:** The active parts are cast in epoxy resin under vacuum, forming a compact body. This body is protected by a wrap of high-quality brown porcelain, to obtain a great creepage distance and a high resistance to the weather. Its insulation class is F (in accordance with CEI 60085 standard).

**Base and secondary terminal box:** The base is made of galvanized iron to prevent corrosion. It incorporates the grounding screw stainless steel and provides locate for the secondary terminal strip. The secondary brass terminals, capable of receiving 10 mm<sup>2</sup> section cables, are protected by a galvanized iron cover with connection through cable glands and an aeration system designed against insects.

**Primary terminals:** The primary terminals consist of flat horizontal copper terminals. On request round terminals of other materials can be supplied. They are protected by an aluminium metal casing; whose function is to homogenize the electric field around the primary terminals.

#### SERVICES

		MAXIMUM BURDEN (VA) (*)           Class         80 In         100 In         150 In         200 In           0.2S         50         40         25         15           5P20         40         30         35         30           0.5         50         40         25         15           5P20         40         30         35         30           0.5         50         40         25         15           5P20         40         30         35         30           0.5         25         15         15         15           5P30         25         15         10         10           5P20         30         30         20         15           0.2S         10         10         15         10					
		Class	80 In	100 In	150 In	200 In	
2 secondary windings	sgn	protection	0.2S	50	40	25	15
			5P20	40	30	35	30
		0.5	50	40	25	15	
		5P20	40	30	35	30	
	ondary	ment al	0.5	25	15	15	15
			5P30	25	15	10	10
	Measurement and	5P20	30	30	20	15	
		5P20	30	30	20	15	
3 secondary windings	condary windings	Measurement and protection	0.2S	10	10	15	10
			0.5	20	20	15	10
			5P20	30	30	20	15
			0.5S	10	10	15	10
			0.5	20	20	15	10
			5P20	30	30	20	15
			0.2S	10	10	10	10
	asur	5P30	15	15	10	10	
	Mea	5P30	15	15	10	10	
		Single primary ratio Double primary ratio	Up to 1500 A Up to 2x750 A		In < 750 A In<2x375 A	ln < 300 A ln<2x150 A	

Upon request, other classes and ratios than those in the table can be budgeted.



## ELECTRICAL CHARACTERISTICS

			IEC 61869-1 and -2
Highest voltage for the material (U <sub>m</sub> ) (kV)			52
Maximum service voltage (kV)			52
Power frequency withstand voltage (kV)		Primary	95
		Secondary	3
Lightning impulse withstand voltage (pe	250		
Primary accigned intensity (A)	Single ratio (Ipn)		≤ 1500
Primary assigned intensity (A)	Double ratio (I <sub>pn</sub> )		≤ 750 -1500
Secondary assigned intensity (I <sub>sn</sub> ) (A)			5
Assigned frequency (f) (Hz)			50/60
Number of secondary winding			1, 2 o 3
Short-circuit thermal current (Ith) (kA) (* another short-circuits thermal current on request)			≤ 31.5
Assigned dynamic current (I <sub>dyn</sub> )			2.5 I <sub>th</sub>
Safety Factor (FS)			≤ 5

## DIMENSIONS (mm)

