Medium Voltage Instrument Transformers Up to 36kV



Various types of medium voltage epoxy resin (dry type) instrument transformers are manufactured according to IEC/IEEE and other international standards.
The products are suitable for indoor and outdoor installation. Window type instrument transformers up to 20000A and inner diameter up to 1200mm are designed and manufactured in Nirou Trans Company.



Voltage Transformer Type: 4VPA , 4VPA1, VPV , VPV1, GUPT , TIPT				
Highest System Voltage	Um (kV)	12	24	36
Insulation Level	BIL (kV)	28-75	50-125	70-170
Rated Primary Voltage	Un (kV)	$11,11/\sqrt{3}$	$20,20/\sqrt{3}$	$33,33/\sqrt{3}$
Rated Secondary Voltage	Usn (V)	$100/\sqrt{3}$ or $110/\sqrt{3}$ or 100 or 110		
Rated Secondary Burden	VA	Up to 100		
Number of Secondary Windings	-	Up to 3		
Class	-	3P , 0.2 , 0.5		
Rated Frequency	F (Hz)	50 / 60		
Installation	-	Indoor or Outdoor		

(Note) Special designs can be offered based on customer's request.

Current Transformer Type: INA , UNA , NICT , APE , AGE				
Highest System Voltage	Um (kV)	12	24	36
Insulation Level	BIL (kV)	28-75	50-125	70-170
Rated Primary Current	Ipn (A)	Up to 3000		
Rated Secondary Current	Isn (A)	1 or 5		
Rated Primary Thermal Current	Ith (kA)	Up to 40		
Number of Cores	-	Up to 4		
Class	-	5P , 10P , X , 0.2 , 0.5 , 0.2S , 0.5S		
Rated Frequency	F (Hz)	50 / 60		
Installation	-	Indoor or Outdoor		

(Note) Special designs can be offered based on customer's request.

Window Type Current Transformer Type: BCT , WML , WHL , WRL		
Highest System Voltage	Um (kV)	0.72 (Max 1.2)
Insulation Level	BIL (kV)	3 (Max 6)
Rated Primary Current	Ipn (A)	Up to 20000
Rated Secondary Current	Isn (A)	1 , 2 , 5
Rated Primary Thermal Current	Ith (kA)	Up to 100
Class	-	5P , 10P , X , 0.2 , 0.5
Rated Frequency	F (Hz)	50 / 60
Installation	-	Indoor or Outdoor
Type of Primary	-	Cable

(Note) Special designs can be offered based on customer's request.

Combined Instrument Transformers (CIT) Up to 36kV

This instrument transformer consists of three units of current transformers and also two double phase voltage transformers. It is designed to measure the three phase current and the phase to phase voltage simultaneously. All of the CT/PT modules are enclosed in one galvanized housing which is filled with oil and hermetically sealed.



Combined Instrument Transformer (CIT)				
Highest System Voltage	Um (kV)	12	24	36
Insulation Level	BIL (kV)	28-60	50-125	70-170
Rated Primary Voltage	Un (kV)	11	20	33
Rated Secondary Voltage	Usn (V)	100	100	110
Rated Secondary Burden	VA	30		
Rated Primary Current	Ipn (A)	Up to 300		
Rated Secondary Current	Isn (A)	5		
Class	-	0.5		
Rated Frequency	F (Hz)	50		
Installation	-	Indoor or Outdoor		

(Note) Special designs can be offered based on customer's request.