

Rudolf Current Transformer - Specification

- Rudolf current transformer are designed and manufactured in accordance to IEC60044-1 2003-02
- Metering are available in encapsulated construction with IP20 sealable termination and choice of bracket
- Tape wound construction available for protection and class X application.
- Non flammable, polycarbonate self extinguishing ABC/PC material
- Accuracy class for metering class 0.5, 1, 3. Burden choice from 3-30VA;
- Accuracy class for protection 5P, 10P, Burden choice from 3-30VA
- Primary current are available from 60A to 6000A. Secondary current are available in both 1A or 5A.
- Technical Specification
 - Rated operational voltage Un 720V
 - Rated frequency 50/60Hz
 - Rated short time thermal current Ith 50kA
 - Rated dynamic current 2.55 x Ith
 - Thermal insulation class B
 - Ambient temperature -5 deg C to 40 deg C
 - Operating humidity upto 95 % relative humidity
 - Insulation between primary / secondary conductor >500 m ohm
 - Insulation between toriod core / secondary conductor > 200m ohm
 - Dielectric strength 2kV 1 minutes
- Limit of current error and phase displacement for metering current transformer to be

Accuracy class	+/- percentage current (ratio) error at percentage of rated current shown below				+/- Phase displacement at percentage of rated current shown below							
					Minutes				Centiradians			
	5	20	100	120	5	20	100	120	5	20	100	120
0.1	0.40	0.20	0.10	0.10	15	8	5	5	0.45	0.24	0.15	0.15
0.2	0.75	0.35	0.20	0.20	30	15	10	10	0.90	0.45	0.30	0.30
0.5	1.50	0.75	0.50	0.50	90	45	30	30	2.70	1.35	0.90	0.90
1.0	3.00	1.50	1.00	1.00	180	90	60	60	5.40	2.70	1.80	1.80

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- Limit of current error and phase displacement for metering current transformer for energy application to be

Accuracy class	+/- percentage current (ratio) error at percentage of rated current shown below					+/- Phase displacement at percentage of rated current shown below									
						Minutes					Centiradians				
	1	5	20	100	120	1	5	20	100	120	1	5	20	100	120
0.2S	0.75	0.35	0.20	0.20	0.20	30	15	10	10	10	0.9	0.45	0.3	0.3	0.3
0.5S	1.50	0.75	0.50	0.50	0.50	90	45	30	30	30	2.7	1.35	0.9	0.9	0.9

- Limit of current error and phase displacement for protection current transformer to be

Accuracy Class	Current error at rated primary current %	Phase displacement at rated primary current		Composite error at rated accuracy limit primary current %
		Minutes	Centiradians	
5P	+/-1	+/-60	+/-1.8	5
10P	+/-3	-	-	10

- Protection class CT, accuracy class is designed by the highest permissible percentage of composite error at ALF. ALF are 5, 10, 15, 20, 30

Type 4 Specification information generated by Helen Too 6-2-2006