

Standard Current Transformer



GENERAL DESCRIPTION

The Model 2509 Instrument Current Transformer is a 6300 A ampere CT designed for precision measurement of AC current or for Instrument Current Transformer calibration applications. The CT can be installed on a bus bar or it can be used with a primary conductor consisting of number of turns.

The 6300 CT is designed with a tapped primary & a tapped secondary winding, thus providing a large number of ratios over a range of 5 to 6300 amperes.

The CT uses the “two stage principle” in which two cores are used to provide superior accuracy. The two stage design also allows the user to run long leads between the CT and the load without degrading the CT accuracy.

The CT is designed to operate in severe magnetic environment and is therefore not affected by the positioning of the primary conductor in the hole or in the location of the return conductor. The CT winding is designed such as to provide the user with a facility to test the performance of the CT and verify its accuracy.

SPECIFICATIONS

- Primary : Wound primary winding : 5...100 amperes, 50/60 Hz
Customer applied primary : 100.....6,300 amperes (1...10 turns)
- Secondary : 5 amperes.
- Test Primary : A 2000 ampere-turn winding is provided to allow for self testing of the CT
- Accuracy : 0.005 IEC Class at a burden of 1 VA,
- Duty Cycle Secondary : Continuous upto 6300 Amperes, 30 minutes at 7500 amperes
- Winding Design : 6 Taps at - (1) 100, (2) 200, (3) 400, (4) 800, (5) 1600, (6) 3200,
- Table of Ratios : Ratio available with customer applied winding (1..10 turns)

6300	6200	6100	6000	5900	5800	5700	5600	5500	5400	5300	5200	5100	5000
4900	4800	4700	4600	4500	4400	4300	4200	4100	4000	3900	3800	3700	3600
3500	3400	3300	3200	3150	3100	3100	3050	3000	3000	2950	2900	2900	2850
2800	2800	2750	2700	2650	2600	2550	2500	2450	2400	2350	2300	2250	2200
2150	2100	2100	2050	2000	1950	1900	1850	1800	1750	1700	1650	1600	1575
1550	1525	1500	1475	1450	1425	1400	1375	1350	1325	1300	1275	1260	1250
1250	1225	1220	1200	1180	1175	1160	1150	1140	1125	1120	1100	1080	1075
1060	1050	1040	1025	1020	1000	980	975	960	950	940	925	920	900
880	875	860	850	840	825	820	800	780	775	760	750	740	725
720	700	680	675	660	650	640	630	620	610	600	590	580	625
575	570	560	550	540	530	525	520	510	500	490	480	475	470
460	450	440	430	425	420	400	390	380	375	370	410	360	350
340	330	325	320	310	300	290	280	275	270	260	250	240	230
225	220	210	200	190	180	175	170	160	150	140	130	125	120
110	100												

- Ampere-Turns Available : Ratios available with pre-wound primary winding
: 125 100 90 80 75 70 65 60 50 62.5 50 45 40 35 30 25 25 20 16 15 14 13 12 10
12.5 10 9 8 7.5 7 6 5 6.25 5 4 3 2.5
- Physical Size : Approx. 686mm x 585mm x 254mm, 170mm feed through hole.
- Weight : Approx. 77 Kgs.



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