

Standard Current Transformer

GENERAL DESCRIPTION

The Models 2504 & 2505 Instrument Current Transformers is a 3,200 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 2504 & 2505 CT are designed with a tapped primary & a tapped secondary winding, thus providing a large number of ratios over a range of 5 to 3,200 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.

Using the CT Ratio Selection Switch on the panel provided, we can select all the CT ratios mentioned below without changing the secondary leads.



SPECIFICATIONS

Primary : Wound primary winding : 5...100 amperes, 50/60 Hz
Customer applied primary : 100.....3,200 amperes (1...10 turns)

Secondary : 5 ampere for 2504 ; 1 ampere for 2505

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 1VA, at 50/60Hz

Duty Cycle : Continuous upto 3200A amperes, 30 minutes at 4000 amperes.

Secondary : 8 Taps at - (1) 0, (2) 100, (3) 200, (4) 1500, (5) 1600, (6) 2000,

Winding Design (7) 2500, & (8) 3200 ampers-turns

Table of Ratios : Stand alone Standard CT 3200A/5A class 0.005 (Ratio 50, 50, 100, 200, 400, 800, & 1600)

3200, 3150, 3100, 3050, 2950, 2900, 2850, 2800, 2750, 2700, 2650, 2600, 2550, 2500, 2450, 2400, 2350, 2300, 2250, 2200, 2150, 2100, 2050, 2000, 1950, 1900, 1850, 1800, 1750, 1700, 1650, 1600, 1575, 1550, 1525, 1500, 1450, 1475, 1425, 1400, 1375, 1350, 1325, 1300, 1275, 1250, 1225, 1200, 1175, 1150, 1125, 1100, 1075, 1050, 1025, 1000, 975, 950, 925, 900, 875, 850, 825, 800, 787.5, 775, 762.5, 750, 737.5, 725, 712.5, 700, 687.5, 675, 662.5, 650, 637.5, 625, 612.5, 600, 587.5, 575, 562.5, 550, 537.5, 525, 512.5, 500, 487.5, 475, 462.5, 450, 437.5, 425, 412.5, 400, 387.5, 375, 362.5, 350, 337.5, 325, 320, 315, 312.5, 310, 305, 300, 295, 290, 297.5, 285, 280, 275, 270, 265, 262.5, 260, 255, 250, 245, 240, 235, 230, 225, 220, 215, 210, 205, 200, 195, 190, 185, 180, 175, 170, 165, 160, 157.5, 155, 152.5, 150, 147.5, 145, 142.5, 140, 137.5, 135, 132.5, 130, 127.5, 125, 122.5, 120, 117.5, 115, 112.5, 110, 107.5, 105, 102.5.

Ampere-Turns : Ratios available with pre-wound primary winding :

Available 100, 97.5, 95, 92.5, 90, 87.5, 85, 82.5, 80, 78.5, 77.5, 76.5, 75, 73.75, 72.5, 71.25, 70, 68.75, 67.5, 66.25, 65, 63.75, 62.25, 61.25, 60, 58.75, 57.5, 56.75, 56.25, 55, 53.75, 52.5, 51.25, 50, 48.75, 47.5, 46.25, 45, 43.75, 42.5, 41.25, 40, 38.75, 37.5, 36.25, 35, 33.75, 32.5, 32, 31.5, 31.25, 31, 30.5, 30, 29.5, 29, 28.75, 28.5, 28, 27.5, 27, 26.5, 26.25, 26, 25.5, 25, 24.5, 24, 23.5, 23, 22.5, 22, 21.5, 21, 20.5, 20, 19.5, 19, 18.5, 18, 17.5, 17, 16.5, 16, 15.75, 15.5, 15.25, 15, 14.75, 14.5, 14.25, 14, 13.75, 13.5, 13.25, 13, 12.75, 12.5, 12, 11.75, 11.5, 11.25, 11, 10.75, 10.5, 10.25, 10, 9.75, 9.5, 9.25, 9, 8.75, 8.5, 8.25, 8, 7.75, 7.5, 7.25, 7, 6.75, 6.5, 6.25, 6, 5.75, 5.5, 5.25, 5.

Accessories : 3 mts. Sec Cable with connector

Physical Size : Approx. 590 x 440 x 180 mm, 140 mm feed through hole

Weight : Approx. 50 Kgs,



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(Specifications subject to change without notice)