



Westinghouse Electric Corporation
Transformer Components Division
Five Parkway Center, Greentree Road
Pittsburgh, PA 15221

Product Bulletin
44-391

Page 1

August, 1983
Supersedes PB 44-391
dated August 18, 1982
Mailed to: E, D, C/2048/DB

115 kV through 230 kV, outdoor
550 kV BIL through 900 kV BIL
Primary Amperes: 25/50
through 1500/3000
60 hertz

Type ICT Current Transformers



www.ElectricalPartManuals.com

Application

The ICT is an oil-filled unit suitable for metering or relaying on high voltage circuits. Two ratios are available by means of a tapped secondary.

General Construction

The ICT is an inverted design with the core and coils housed in a tank which is mounted at the top of the primary bushing. The core and secondary winding are constructed as a bushing current transformer utilizing a closed ring core with a fully distributed secondary winding. This provides construction without core air gaps and with no leakage flux entering the core, resulting in high accuracy of current transformation.

The major insulation is applied to the core and coil assembly. High dielectric strength crepe paper tape is applied layer by layer. Capacitive grading is utilized to control internal dielectric stresses and to provide a uniform external field for high flashover strength.

The complete unit is ANSI 70 light gray in color, including the porcelain.

Accuracy

ANSI Metering Accuracy Class:
0.3 for B 0.1 through B 2.0 (Both Ratios)

ANSI Relaying Accuracy Class:

C200, high ratio
C100, low ratio

Continuous Thermal Current Rating Factor

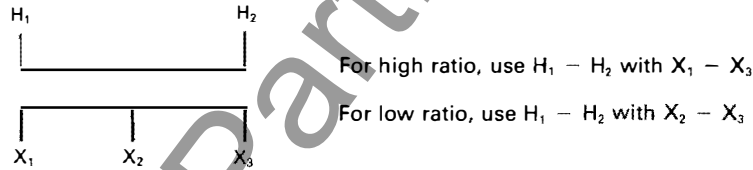
1.5 for ratings up to and including 600/1200
1.0 for ratings above 600/1200

Selector Guide

Primary Ampere Rating	ICT550 550kV BIL	ICT650 650kV BIL	ICT750 750kV BIL	ICT900 900kV BIL
	Style Number	Style Number	Style Number	Style Number
25/50	8525A57H01	8525A58H01	8525A59H01	8525A60H01
50/100	8525A57H02	8525A58H02	8525A59H02	8525A60H02
75/150	8525A57H03	8525A58H03	8525A59H03	8525A60H03
100/200	8525A57H04	8525A58H04	8525A59H04	8525A60H04
150/300	8525A57H05	8525A58H05	8525A59H05	8525A60H05
200/400	8525A57H06	8525A58H06	8525A59H06	8525A60H06
300/600	8525A57H07	8525A58H07	8525A59H07	8525A60H07
400/800	8525A57H08	8525A58H08	8525A59H08	8525A60H08
500/1000	8525A57H09	8525A58H09	8525A59H09	8525A60H09
600/1200	8525A57H10	8525A58H10	8525A59H10	8525A60H10
800/1600	8525A57H11	8525A58H11	8525A59H11	8525A60H11
1000/2000	8525A57H12	8525A58H12	8525A59H12	8525A60H12
1500/3000	8525A57H13	8525A58H13	8525A59H13	8525A60H13

Secondary current rating is 5 amperes.
For double secondary designs, check Westinghouse.
For BIL levels above 900kV, check Westinghouse.

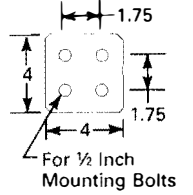
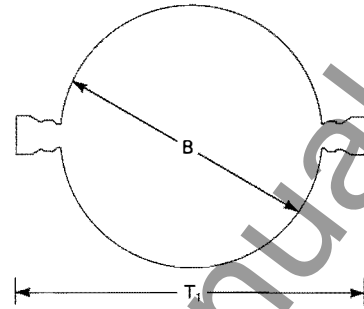
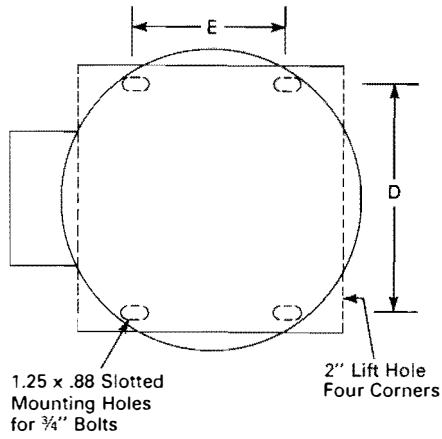
Typical Wiring Diagram



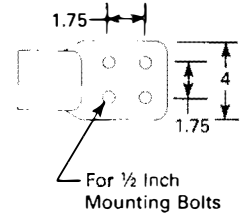
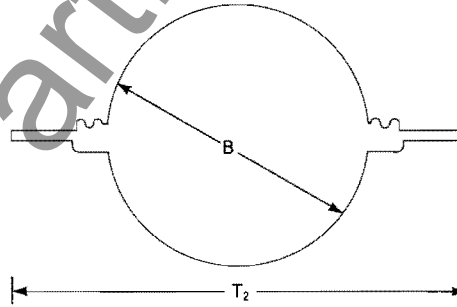
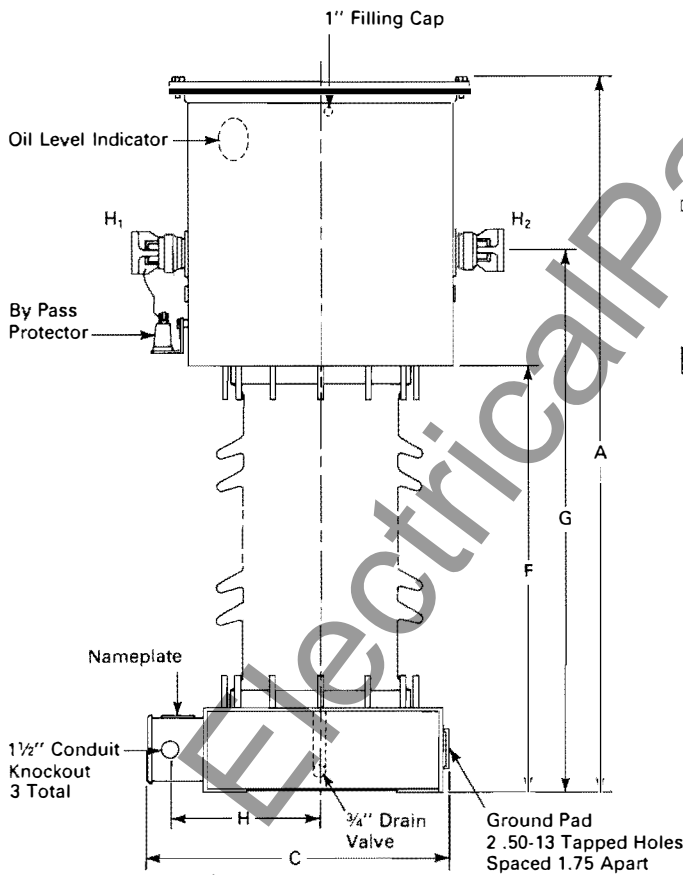
Short Time Mechanical and Thermal Ratings

Ratio	kA (RMS Symmetrical)	kA, 1 Second
25/50	4	3
50/100	8	7
75/150	12	10
100/200	15	13
150/300	20	20
200/400	30	26
300/600	40	39
400/800	60	52
500/1000	60	65
600/1200	60	78
800/1600	120	120
1000/2000	120	120
1500/3000	120	120

www.ElectricalPartMan.com



Vertical 4 Hole Spade for Ratings up to and Including 600/1200



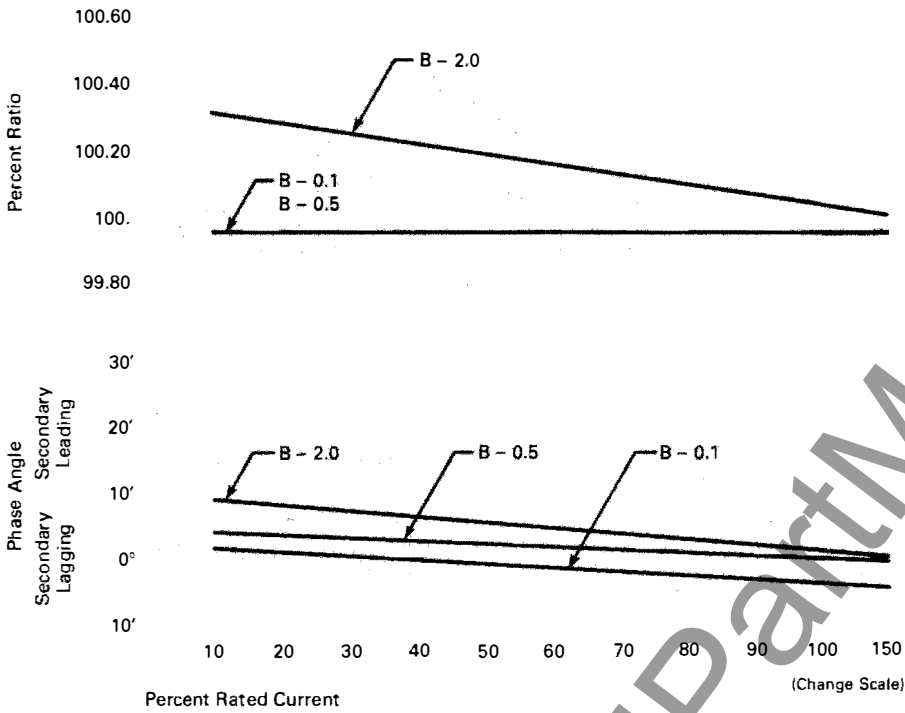
Horizontal 4 Hole Spade for Ratings above 600/1200, 2-12 Stud with Electrical Specialty Products Co. Type BSF Stud Connector

Approximate Dimensions (Inches) and Weight (Lbs.)

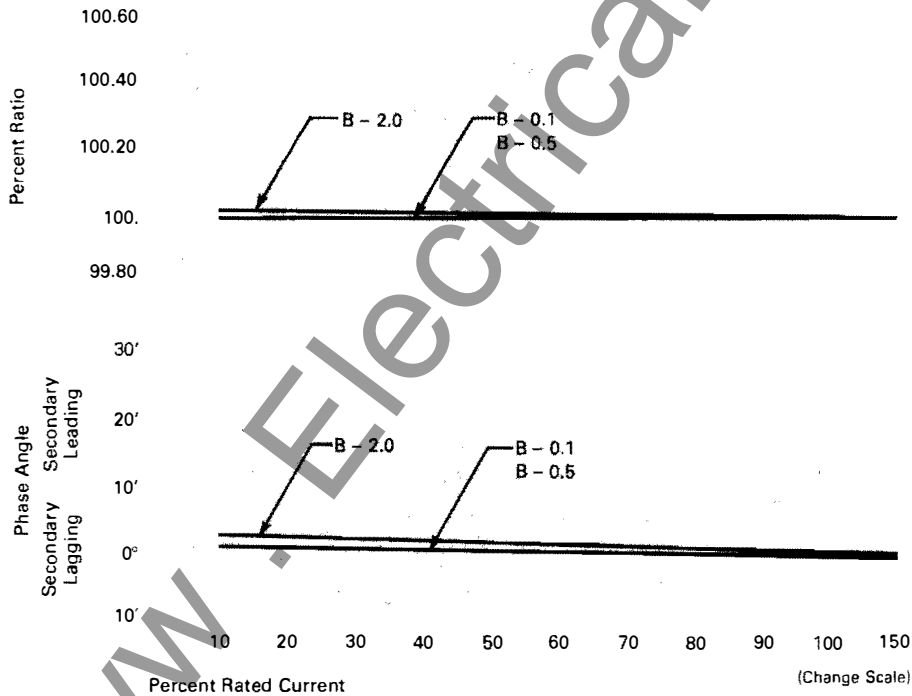
BIL	A	B	C	D	E	F	G	H	T ₁	T ₂	Weight	Gals. Oil
550	79	23	27	17	16.75	53.75	63	13.25	30	37	940	35
650	89	23	27	17	16.75	63.75	73	13.25	30	37	1040	42
750	104	27	34	24	23.75	70.75	80	16.75	36	41	1450	80
900	116	27	34	24	23.75	82.75	91	16.75	36	41	1650	100



Typical Performance Curves
Low Ratio



High Ratio



Printed in USA