



Westinghouse Electric Corporation
Energy Metering and Control Division
Raleigh, NC 27611

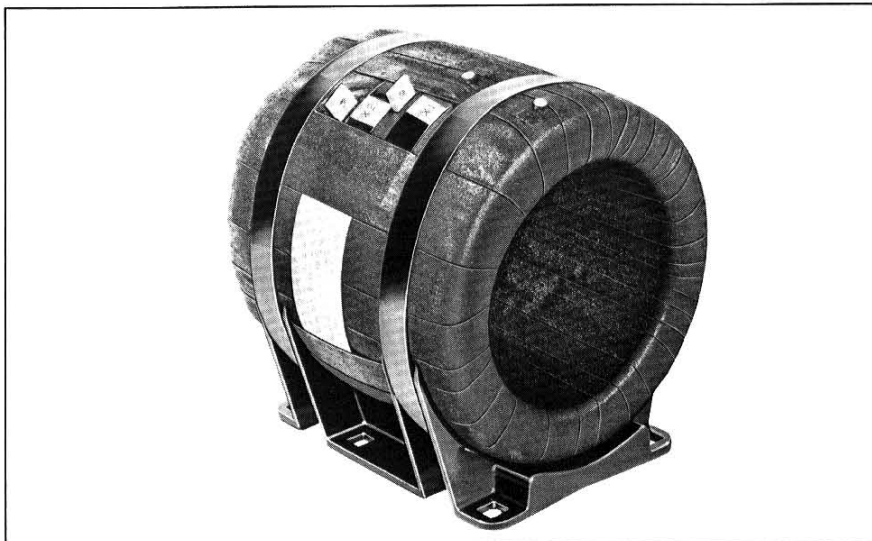
Product Bulletin
42-854

Page 1

January, 1983
Supersedes Product Bulletin 42-854,
pages 1-2, dated February, 1980
Mailed to: E, D, C/42-800A

2500 Volt Test, Indoor
Primary Amperes: 50 Through 4000
25 Through 400 Hertz

Type RCT Current Transformers



Application

The RCT current transformer is for application in medium voltage (5-15 kV) switchgear. Two current transformers per phase can be mounted over the porcelain bottles on Westinghouse DHP breakers.

The numbers in the designations RCT-5 and RCT-15 do not refer to insulation class, but to the voltage class of the switchgear. Dual and multi-ratio RCTs are available.

Ratings

Mechanical Rating: 180 x Rated Current

Thermal Rating: 100 x rated current for one second

Continuous Current Rating Factor:

1.33 at 30°C Ambient

1.00 at 55°C Ambient

Selector Guide

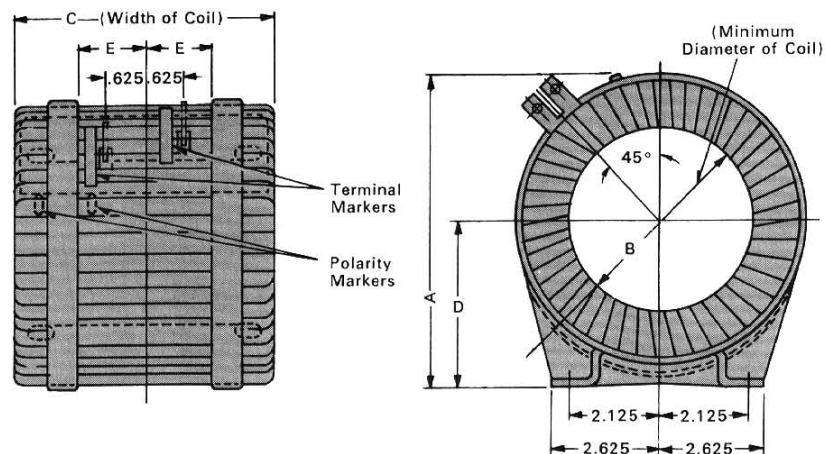
Selection Guide						Relay Accuracy Class	Style Number	Superseded Style Number
Primary Current Rating ^①	ANSI Metering Accuracy							
	B.1	B.2	B.5	B.9	B1.8			
RCT-5								
50	1.2	..	..	..	..	C10	593C309G01	7881A21G01
75	.6	1.2	2.4	..	..	C20	593C303G01	7881A21G02
100	.6	1.2	2.4	..	..	C20	593C310G01	7881A21G03
150	.6	.6	1.2	..	..	C50	593C320G01	7881A21G04
200	.6	.6	1.2	1.2	2.4	C50	593C330G01	7881A21G05
250	.6	.6	.6	1.2	1.2	C50	593C343G01	
300	.6	.6	1.2	1.2	2.4	C20	593C350G01	7881A21G06
400	.3	.3	1.2	1.2	2.4	C100	593C370G01	7881A21G07
500	.6	.6	.6	1.2	1.2	C100	593C390G01	
600	.3	.3	.3	.3	.6	C100	593C400G01	7881A21G08
800	.3	.3	.3	.3	.6	C50	593C420G01	7881A21G09
1000	.3	.3	.3	.3	.6	C50	593C433G01	
1200	.3	.3	.3	.3	.3	C100	593C440G01	7881A21G10
1500	.3	.3	.3	.3	.3	C100	593C470G01	7881A21G11
2000	.3	.3	.3	.3	.3	C100	593C480G01	7881A21G12
2500	.3	.3	.3	.3	.3	C100	593C530G01	
3000	.3	.3	.3	.3	.3	C100	593C552G01	
RCT-15								
50	2.4	..	..	..	..	C20	593C308G01	7881A23G01
75	.6	1.2	2.4	..	..	C20	593C304G01	7881A23G02
100	.6	1.2	2.4	..	..	C50	593C311G01	7881A23G03
150	.6	.6	1.2	..	..	C50	593C321G01	7881A23G04
200	.6	.6	.6	1.2	2.4	C100	593C332G01	7881A23G05
250	.6	.6	.6	.6	1.2	C100	593C344G01	
300	.3	.3	.6	.6	1.2	C100	593C352G01	7881A23G06
400	.3	.3	.3	.6	.6	C200	593C372G01	7881A23G07
500	.3	.3	.3	.3	.6	C200	593C392G01	
600	.3	.3	.3	.3	.6	C200	593C403G01	7881A23G08
800	.3	.3	.3	.3	.6	C100	593C421G01	7881A23G09
1000	.3	.3	.3	.3	.3	C200	593C434G01	7881A23G10
1200	.3	.3	.3	.3	.3	C200	593C443G01	7881A23G11
1500	.3	.3	.3	.3	.3	C200	593C472G01	7881A23G12
2000	.3	.3	.3	.3	.3	C200	593C484G01	7881A23G13
2500	.3	.3	.3	.3	.3	C100	593C532G01	
3000	.3	.3	.3	.3	.3	C100	593C553G01	7881A23G14
4000	.3	.3	.3	.3	.3	C100	593C581G01	7881A23G15

^① Secondary Current is 5 amperes at primary current.



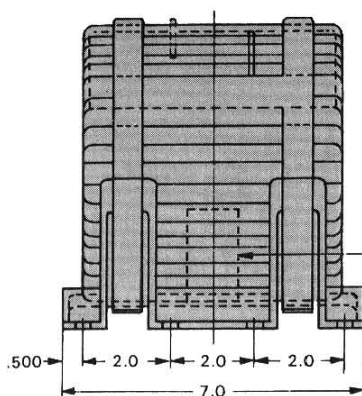
Dimensions (in Inches)

RCT-5, RCT-15

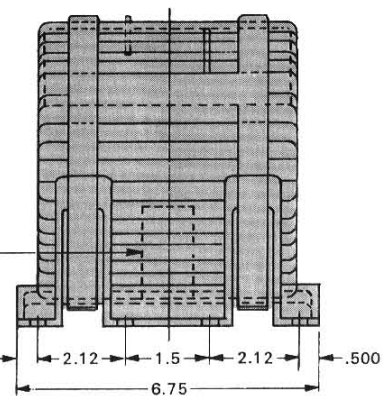


Primary Current	Type	Dimension in Inches				
		A	B	C	D	E
50 thru 600	RCT-5	6.88	4.00	7.00	4.00	1.56
800 thru 3000	RCT-5	6.88	4.81	7.00	4.00	1.56
50 thru 600	RCT-15	9.50	5.75	6.75	5.50	1.38
800 thru 4000	RCT-15	9.50	6.56	6.75	5.50	1.38

RCT-5

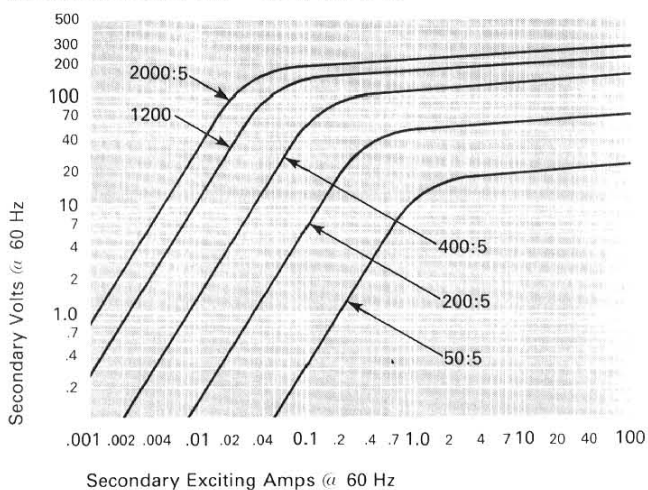


RCT-15



Secondary Excitation Curves

RCT-5 (Resistance per turn = 0.0025 Ω at 75°C.)



RCT-15 (Resistance per turn = .003 Ω at 75°C.)

