

Standard ratings

Current and voltage transformers (CTs and VTs)

IEEE C57.13 Table 8 - Standard multi-ratio current transformer taps*

Ratio	Tap	Ratio	Tap	Ratio	Tap	Ratio	Tap	Ratio	Tap	Ratio	Tap
600:5 MR		1200:5 MR		2000:5 MR		3000:5 MR		4000:5 MR		5000:5 MR	
50:5	X2-X3	100:5	X2-X3	300:5	X3-X4	300:5	X3-X4	500:5	X1-X2	500:5	X2-X3
100:5	X1-X2	200:5	X1-X2	400:5	X1-X2	500:5	X4-X5	1000:5	X3-X4	1000:5	X4-X5
150:5	X1-X3	300:5	X1-X3	500:5	X4-X5	800:5	X3-X5	1500:5	X2-X3	1500:5	X1-X2
200:5	X4-X5	400:5	X4-X5	800:5	X2-X3	1000:5	X1-X2	2000:5	X1-X3	2000:5	X3-X4
250:5	X3-X4	500:5	X3-X4	1100:5	X2-X4	1200:5	X2-X3	2500:5	X2-X4	2500:5	X2-X4
300:5	X2-X4	600:5	X2-X4	1200:5	X1-X3	1500:5	X2-X4	3000:5	X1-X4	3000:5	X3-X5
400:5	X1-X4	800:5	X1-X4	1500:5	X1-X4	2000:5	X2-X5	3500:5	X2-X5	3500:5	X2-X5
450:5	X3-X5	900:5	X3-X5	1600:5	X2-X5	2200:5	X1-X3	4000:5	X1-X5	4000:5	X1-X4
500:5	X2-X5	1000:5	X2-X5	2000:5	X1-X5	2500:5	X1-X4			5000:5	X1-X5
600:5	X1-X5	1200:5	X1-X5			3000:5	X1-X5				

*Contact factory for customer specific ratio taps.

IEEE C57.13 Table 6/C57.13.6 Table 1: Standard accuracy class for metering service and corresponding limits of transformer correction power*

Accuracy class	Voltage Transformers				Current Transformers			
	90% to 100% rated voltage		100% rated current*		10% rated current		5% rated current	
	Min	Max	Min	Max	Min	Max	Min	Max
0.15S	0.9985	1.0015	0.9985	1.0015	-	-	0.9985	1.0015
0.15	0.9985	1.0015	0.9985	1.0015	-	-	0.997	1.003
0.3	0.997	1.003	0.997	1.003	0.994	1.006	-	-
0.6	0.994	1.006	0.994	1.006	0.988	1.012	-	-
1.2	0.988	1.012	0.988	1.012	0.976	1.024	-	-

*0.6 to 1.0 power factor of metered load, lagging

*Accuracy rating applies from 100% I_{nom} through continuous thermal rating factor (RF)

IEEE C57.13 Table 9/C57.13.6 Table 2: Std 5A secondary CT burdens*

Burden designation	Resistance (ohms)	Inductance (millihenrys)	Impedance (ohms)	Volt-amperes	Power factor
Metering burdens					
E-0.04	0.04	0.0	0.04	1.0	1.0
E-0.2	0.20	0.0	0.20	5.0	1.0
B-0.1	0.09	0.116	0.1	2.5	0.9
B-0.2	0.18	0.232	0.2	5.0	0.9
B-0.5	0.45	0.580	0.5	12.5	0.9
B-0.9	0.81	1.040	0.9	22.5	0.9
B-1.8	1.62	2.080	1.8	45.0	0.9
Relaying burdens					
B-1	0.5	2.3	1.0	25	0.5
B-2	1.0	4.6	2.0	50	0.5
B-4	2.0	9.2	4.0	100	0.5
B-8	4.0	18.5	8.0	200	0.5

*at 60 Hz

IEEE C57.13 Table 15 - Standard VT burdens at 60 Hz

Burden designation	Secondary volt-amperes	Burden power factor
W	12.5	0.10
X	25.0	0.70
M	35.0	0.20
Y	75.0	0.85
Z	200.0	0.85
ZZ	400.0	0.85

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