

TITLE : GTP_145 kV 4400PF CVT	PAGE 1 / 1	
	Prepared By:	DATE
	APPD. BY	

145 kV CAPACITOR VOLTAGE TRANSFORMER		
1. General		
a.	Name and Address	Siemens Ltd. India. E-76, MIDC Waluj, Aurangabad, India.
b.	Manufacturer's type designation	Oil filled CVT with porcelain insulator
c.	Standards Applicable	IEC: 60044-5 / IS: 3156 (1992)
d.	Rated voltage	132 kV/ $\sqrt{3}$ rms
e.	Number of secondaries	3
f.	Rated frequency	50 Hz.
2. Guaranteed Ratings		
a.	Rated output of each secondary winding	Wdg-I : 50VA Wdg-II : 50VA Wdg-III : 50VA
b.	Total simultaneous burden	50VA / 0.2
c.	Accuracy class of each secondary winding	Wdg-I : 3P Wdg-II : 3P Wdg-III : 0.2
d.	Rated voltage factor and corresponding rated time	
	i) Continuous	1.2
	ii) 5 seconds	1.5
	iii) 30 seconds	1.5
e.	Capacitance for carrier frequency coupling(pF)	4400 (+10%, -5%)
f.	i) Natural frequency of coupling	More than 600 kHz
	ii) Self tuning frequency of CVT	More than 600 kHz
g.	Band Width	40kHz to 500 kHz
h.	Temperature rise over ambient temperature at 40°C	Within limits specified in IEC 60044-5
i.	One minute power frequency test voltage of secondary winding (kV rms)	3 kV rms
j.	One minute power frequency test voltage of H.F. terminal	4 kV rms
k.	One minute power frequency test voltage of capacitor (kV rms) (dry & wet)	275 kV rms
l.	1.2 / 50 micro second impulse withstand test voltage of capacitor (kVp)	650 kV peak
m.	250 /2500 micro switching surge withstand voltage of capacitor (dry & wet) (kVp)	Not applicable
n.	Corona extinction voltage	92 kV rms
o.	Radio Interference voltage at 1.1xUm/ $\sqrt{3}$	<1000 μ V
3. Construction Details		
a.	Total Weight	Refer drawing no.: (4)G71AIN-EA202-Z435-200
b.	Quantity of oil	Refer drawing no.: (4)G71AIN-EA202-Z435-200
c.	Whether CVTs are hermetically sealed	Yes
d.	Standard to which oil conforms generally	IS: 335
4. Literature		
a.	OGA drawing	Refer drawing no.: (4)G71AIN-EA202-Z435-200
b.	Creepage Distance	25 mm / kV