



*Mastering the transformation of electrical energy*

**EETC - Egyptian Electricity Transmission Co.  
Kafr El-Zayat**

**167 MVA – 500 /  $\sqrt{3}$  / 243 /  $\sqrt{3}$  / 12 kV - Single phase**



# MAIN DATA

- **Type** : Autotransformer
- **Technology** : shell type
- **Number of phases** : 1
- **Applicable standards** : IEC
- **Frequency** : 50 Hz
- **Cooling System** : ONAN/ONAF1/ONAF2
- **Type of regulation** : On Load Tap Changer on series winding
- **Additional equipment** : Fire fighting system, Tertiary Insulated Phase Bus-duct

	Rated Voltage	Power rating	Connection	
High voltage	500/ $\sqrt{3}$ kV	167 MVA	Wye	
Medium voltage	242/ $\sqrt{3}$ kV	167 MVA	Wye	
Low voltage	12 kV	50 MVA	Delta	
			<b>HV</b>	<b>MV</b>
			<b>Neutral</b>	<b>LV</b>
Power frequency test voltage	680 kV	460 kV	230 kV	28 kV
Full wave impulse test voltage	1 550 kV	1 050 kV	550 kV	75 kV
Chopped wave impulse test voltage	1 705 kV	1 155 kV	-	-
Switching surge test voltage	1 175 kV	-	-	-
Total weight	178 tons			
Untanking weight	16 tons			
Oil weight	38 tons			
Transportation weight (heaviest part)	120 tons			