



Mastering the transformation of electrical energy

**G.R.T.E. – Société Algérienne de Gestion
du Réseau de Transport de l'Électricité
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100 MVA - $400/\sqrt{3}$ / $225/\sqrt{3}$ / 31.5 kV – Single phase**



MAIN DATA

- **Type** : Autotransformer
- **Technology** : Shell type
- **Number of phases** : 1
- **Applicable standards** : IEC
- **Frequency** : 50 Hz
- **Cooling System** : ONAN/ONAF/OFAF
- **Type of regulation** : On load tap changer in series winding
- **Short-circuit tested at KEMA laboratory** (Netherlands)

| | Voltage | Power rating | Connection | |
|--|--------------------|-----------------------|-------------------|----------------|
| High voltage | 400/ $\sqrt{3}$ kV | 100 MVA | Wye | |
| Medium voltage | 225/ $\sqrt{3}$ kV | 100 MVA | Wye | |
| Low voltage | 31.5 kV | 33 MVA | Delta | |
| | | | | |
| | | HV | MV | Neutral |
| Power frequency test voltage | | 630 kV | 460 kV | 460 kV |
| Full wave impulse test voltage | | 1 425 kV | 1 050 kV | 1 050 kV |
| Chopped wave impulse test voltage | | - | - | - |
| Switching surge test voltage | | 1 050 kV | 850 kV | - |
| | | | | |
| Total weight | | 104 tons | | |
| Untanking weight | | 11 tons | | |
| Oil weight | | 26 tons | | |
| Transportation weight (heaviest part) | | 68 tons (without oil) | | |