



specialist in Automatic Voltage Regulators and Stabilisers

Claude Lyons

EST-1 Energy Saving Transformer

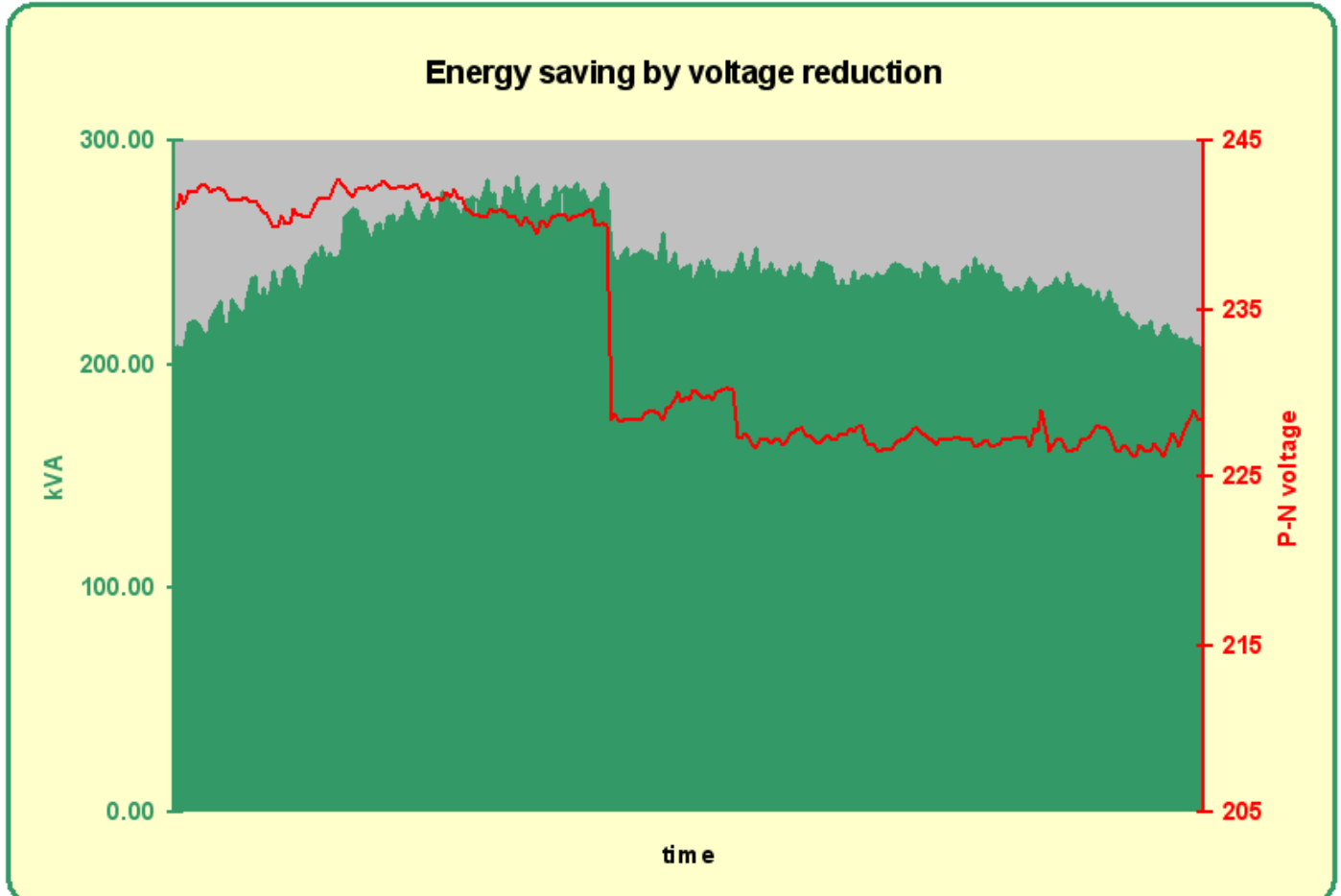


An energy saving transformer is essentially a tapped auto-transformer, providing a voltage reduction.

Many types of electrical equipment can operate perfectly well on a lower voltage with a consequent reduction in power consumption and in some cases an increase in operating life. This is especially so with equipment designed to operate on 220V or 230V supplies and where the supply voltage has remained at 240V, and similarly for three phase equipment designed for 380V or 400V on 415V

Single and three-phase Energy Saving Transformers in power ratings to approximately 3000 Amps per phase depending on the voltage reduction required - typically from 3% to 10% according to customer requirements.

The standard range of transformers listed below provides 3%, 5% or 7% reduction, which is optimal for a large number of applications. In other cases, **PowerSave™** Energy Saving Transformers can be supplied for other fixed voltage ratios. In each case the result is energy saving and reduced carbon emissions (each kWh of electrical energy saved is equivalent to 0.43 kg CO₂).



EST-1 Energy Saving Transformer



Specification for single phase EST-1

| Output Voltage | Maximum nominal reduction of 12% | | | |
|--------------------------|--|-------------|----------------------------|----------------------------------|
| Output Adjustment | Three fixed taps of 3%, 5% & 7% (others upon request) | | | |
| Output Regulation | ±1% zero to full load | | | |
| Input Voltage | Maximum 254V single phase | | | |
| Output Rating | See below. *Ratings are given at 240V (before energy saving) | | | |
| Supply Frequency | 50/60 Hz | | | |
| Waveform Distortion | None | | | |
| Efficiency | 99.5% at full load | | | |
| Effect on PF | None | | | |
| Surge Rating | 1000% for 2 Seconds, 300% for 2 Minutes | | | |
| Insulation Class | "F" | | | |
| Temperature Class | "B" | | | |
| Operational Temperature | 0 to 40°C | | | |
| Operational Humidity | 95% non-condensing | | | |
| Enclosure | IP21 wall mounting enclosure | | | |
| Warranty | 5 Years | | | |
| PowerSave™ Models | Maximum Output Current | *kVA | Approximate Weights | Dimensions H x W x D (mm) |
| EST-1-32 | 32 Amps | 7.7kVA | 15kg | 300 x 300 x 210 |
| EST-1-63 | 63 Amps | 15kVA | 22kg | 300 x 400 x 210 |
| EST-1-100 | 100 Amps | 24kVA | 30kg | 380 x 380 x 210 |

Additional Energy Saving Products :

PowerSave™ : Single and three phase ESS regulators with ratings up to 2000 Amps per phase.

Harmonic reduction transformers (HRT) : Removal of harmful 3rd harmonics from the neutral cable resulting in an overall energy saving.

E&OE issue EST-1/2007a Due to continuous improvements Claude Lyons reserve the right to change specifications without notice

Claude Lyons Limited

Brook Road Waltham Cross Hertfordshire EN8 7LR UK

Tel : + 44 (0) 1992 768888 Fax : + 44 (0) 1992 788000 email : info@claudelyons.co.uk

Web : www.claudelyons.co.uk UK On-line shopping : www.claudelyons.co.uk/orderhelp.htm