



# Varmatic Vario

**REDUCE CARBON EMISSIONS AND ENERGY COSTS BY UP TO 20%**

**LOWER THE LEVELS OF KWH CONSUMPTION USED BY ALL EQUIPMENT CONNECTED TO YOUR 415V ELECTRICAL POWER SYSTEM**



## ARE YOU RESPONSIBLE FOR :

- REDUCING ENERGY COSTS?
- REDUCING CARBON EMISSIONS?
- ENERGY EFFICIENCY?
- INCREASING PROFITABILITY?

If so, then install the SDC Industries **VARMATIC VARIO** – the complete solution to your energy efficiency programme.

## HOW CAN THE VARMATIC VARIO SAVE ENERGY COSTS AND REDUCE CARBON EMISSIONS?

By installing the **VARMATIC VARIO** on the 415V electricity supply as it enters your site means reduction on kWh at source. The device will reduce total kWh consumption, therefore, you will make major savings on electricity costs (it has been proven that the **VARMATIC VARIO** will **reduce levels of KWh used by UP TO 20%** (savings are on average around 14%). The reduction in kWh usage will improve the energy efficiency of your site, hence reducing total carbon emissions.

## WHAT IS THE VARMATIC VARIO?

Equipment such as lifts, manufacturing equipment, lighting and motors use more voltage than is required to operate, resulting in higher KWh usage and, in turn, higher electricity bills.

The **VARMATIC VARIO** is an energy saving transformer-based power optimiser, which is installed directly onto your incoming 415V power supply.

The advanced voltage optimisation technology used by the **VARMATIC VARIO** allows this type of equipment to operate at optimum capacity, whilst consuming less energy.

The optimiser is available in sizes ranging from 30KVA to 3MVA, and payback on the device can vary from around 12 to 36 months.

## WHO CAN BENEFIT FROM INSTALLING THE VARMATIC VARIO?

For the past 30 years, SDC Industries energy efficiency equipment has been installed by industry leading organisations throughout the UK and overseas. The **VARMATIC VARIO** can be utilised by businesses in various sectors, including

**DESIGNED AND MANUFACTURED IN THE UK**



INDUSTRIES

- MANUFACTURING FACILITIES
- PRISONS
- COUNCIL PREMISES
- RETAIL OUTLETS
- SCHOOLS/UNIVERSITIES
- QUARRIES
- SITE TEMPORARY ELECTRICITY SUPPLIES

## ESTIMATING YOUR EXACT REQUIREMENTS

Our engineers are available to offer you advice on the **VARMATIC VARIO**, however, before we can move forward in providing a quotation, we would require certain details from you.

We realise each client is different, therefore, we offer an option on the way the required information can be sent to us :

### a) FREE OF CHARGE SITE SURVEY :

SDC Industries have been in business since 1978, and during that time we have found that our clients generally prefer our local Area Sales Engineers to visit their site and discuss their particular requirements on a personal level. This helps ensure we get it right first time, and gives our client complete peace of mind.

### b) SEND US YOUR READINGS :

If you would prefer, we can estimate a required unit specification and price simply by receiving the following information from you :

- **Total annual kWh consumption for the incoming supply where the **VARMATIC VARIO** would be installed.**

-**The highest level of demand over the past 12 months for each incoming power supply.**

- **Your total electricity cost for 12 months (including Climate Change Levy).**

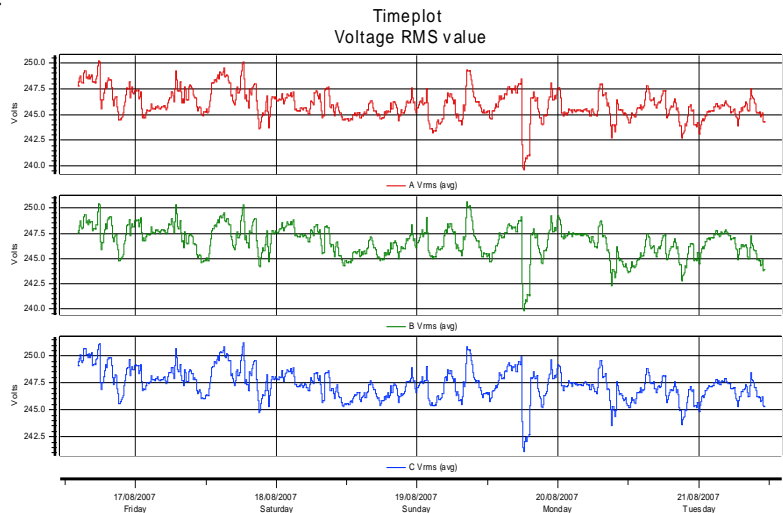
Upon receipt and analysis of this information, we will provide a detailed quotation and the projected savings.

Information received by SDC Industries will remain strictly confidential, and will not be forwarded or disclosed to any external third party.

## VOLTAGE RECORDER

We are in no doubt that our **VARMATIC VARIO** will make savings for you. Therefore, upon receipt of our proposed quotation, if you feel the savings are of a significant level to enable you to move forward, the next step would involve posting you (by recorded delivery) the **MINIATURE VOLTAGE RECORDER**.

This device is safe, small and easy to use. Just plug it into your electricity socket for one week, then send it back to us to allow our engineers to analyse the results (see Fig 1 below). From this, we can be 100% sure we have everything we need to manufacture the product to match your requirements.



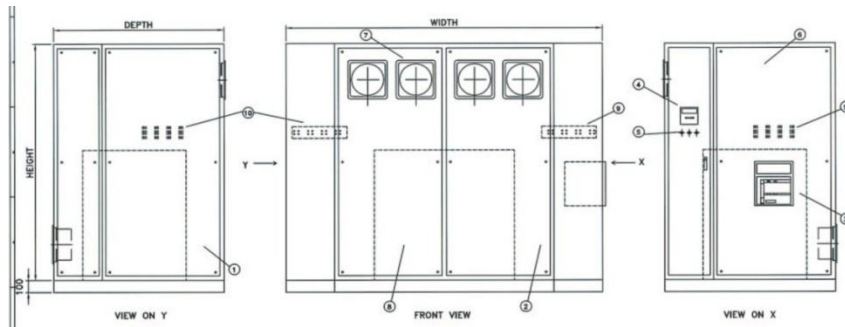
**Fig 1 : Typical Analysis of Voltage on Power System**

FOR MORE  
INFORMATION,  
PLEASE CONTACT  
OUR TECHNICAL  
DEPARTMENT ON :

TEL : 01355  
265959

E-mail :  
info@sdcindustries.co.uk

## VARMATIC VARIO - DESIGN



UNIT RATING (KVA)	HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)
2000	1800	2200	1300
1500	1600	2000	1100
1000	1500	1900	1000
800	1500	1800	1000
500	1400	1600	800
300	1400	1500	800
150	1200	600	600
100	1000	800	400
75	800	800	400
50	800	600	400
30	600	600	300

Typical Transformer Layout and Dimensions

The **VARMATIC VARIO** is designed to include features that are unique to SDC Industries. These include :

- Conductor Size.
- Insulation Material.
- Overload Capacity (up to 10%).
- Strength of Construction.
- Enclosure designed for indoor or outdoor use (dependant on client specification) for safety and security.

### OPTIONAL EXTRAS

- Protective device (incoming or outgoing) fitted as an option to enclosure for safe and speedy installation at site.
- Metering can be fitted as an option to allow monitoring of electricity consumption (this can be connected to a remote monitoring point, if required).
- A "BYPASS" facility/switch is optional on all installations, to ensure that in the unlikely event of a problem, the **VARMATIC VARIO** can be switched out of circuit.

### OTHER FEATURES AND DESIGN OPTIONS

- 240V input termination can be positioned (if required) on the opposite side of the transformer from the output terminations.
- Earthing points can be positioned either above or below the terminations.
- Unit size can be altered to suit particular client specifications.

### ADDITIONAL BENEFITS

- The **VARMATIC VARIO** offers the following additional benefits :
- **Surge Suppression**
  - **Harmonic Filtration**
  - **Power Factor Correction**

### CERTIFICATION

The **VARMATIC VARIO** is certified to the following British/European accreditation : BS171/BSEN60076 and BS7806/IEC726

**IF YOU WOULD LIKE TO FIND OUT MORE  
ABOUT THE SDC INDUSTRIES Varmatic  
VARIO, PLEASE CONTACT US ON :**

**TEL : 01355 265959**

**FAX : 01355 265484**

**E-MAIL : [info@sdcindustries.co.uk](mailto:info@sdcindustries.co.uk)**

**[www.sdcindustries.co.uk](http://www.sdcindustries.co.uk)**



**SDC Industries Ltd has been in business since 1978, and have been manufacturing energy efficiency technology for over 30 years. In 2001 we introduced the extremely successful energy saving Varmatic LightMaster Lighting Optimiser.**

**Our in-house engineers have vast experience in electrical product design, and our complete product range is manufactured in the UK.**

