

System Engineering

Solutions From



KUKSONS ELECTRONICS PVT. LTD.



**SIEMENS
SYSTEM HOUSE**

**Power Solutions &
Harmonic Analysis**

KUKSONS ELECTRONICS PVT. LTD, is a decade old company and our real strength is our expertise in system engineering, which has come through innovative approach of every single person towards all projects executed by us till date.

We have executed 1000+ prestigious assignments in all Industry sectors & We have established ourselves as a leading & reputed firm dealing with Prestigious organization such as Defence, DRDO, Railways, MES, & more than 1000 small, medium & large Private sectors Like Processes, Machine Tools, Automobiles, Manufacturing Pharmaceutical & Large Project Consultants & Contractors.

We are leading system integrator & undertake turnkey projects involving supply of **PLC, DRIVES, NETWORKING PRODUCTS, FIELD INSTRUMENTS, HMI SYSTEMS, SCADA SYSTEMS INCLUDING SOFTWARE DEVELOPMENT, INSTALLATION & COMMISSIONING OF INSTRUMENTATION & AUTOMATION SYSTEMS.** In short **KUKSONS** can undertake any of all these activities on case-to case basis and our objective is **TOTAL CUSTOMER SATISFACTION** with the **MOST COST EFFECTIVE SOLUTION.**

- Manufacturing of Power Regulators, DC Drives & SMPS.
- Undertake System Engineering & Critical Systems Applications.
- Retrofitting Existing Process Equipment With Advance Automation Systems.
- PC Based Process & Machine Visualization systems
- Industrial Networking & Remote Monitoring & Control System.
- Undertake Power Harmonic Study & Provide Solution, Suggest Capacitor Panels and manufacture & Install the same.
- Custom Build Control Panels Instrumentation Panels, PLC & DRIVE Panels.
- Process Industry Automation.
- Furnace Automation.

We are Authorised Distributors for SIEMENS Micro Systems & System House of SIEMENS who is world leader in INDUSTRIAL AUTOMATION with packaged hardware & software Solutions.

DC DRIVE FROM KUKSONS FROM 0.25 TO 100HP , OEM UNITS & DRIVE PANEL SYSTEM

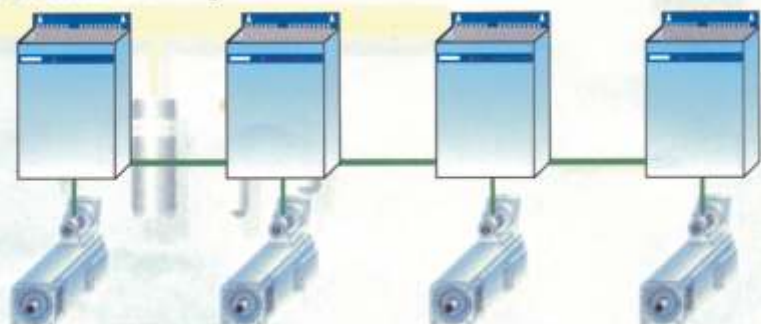
DC DRIVE : Well proven drives Technology : RUGGED, DYNAMICS, & LOW PRICES.

Depends on the application. DC Drives are often the most economical drive solution, They also have many advantages in terms of reliability user friendliness & operational, response. A number of technical & commercial flow are as important, as they have been in the past for development of DC DRIVES in many sectors of industry. Drives have gained the trust of OEM & END USERES.

Conventional unidirectional drives, reversible by contactors typical application include : Machine Tools, Conveyors, Paper Mills, Sugar Mills, Textile Processors & Sizing Etc.

Operating Voltage

220VAC/1PH INPUT : 180VDC FOR ARMATURE
415VAC/2PH INPUT : 360VDC FOR ARMATURE
440VAC/3PH INPUT : 400VDC FOR ARMATURE



KUKSONS offer you a wide range of the Quality Electronic Equipment that have proven themselves under diverse conditions in the Indian industrial environment, giving all our customers unmatched value for money.

CONTROLLED D.C. OR A.C. POWER FOR YOUR CRITICAL APPLICATIONS, RESISTIVE & INDUCTIVE HEATING LOAD

O.E.M. SYSTEMS • OPEN CHASSIS UNITS • RACK UNITS • PANELS & SYSTEMS

KUKSONS Power Regulators or Power Controllers are used for providing controlled AC/DC power from the incoming A.C. mains supply.

These compact controllers take Single / Three Phase input employing state of the art technology for providing variable voltage, They assist in the conservation of energy close loop current controller takes care of current limiting.

OVERVIEW & FEATURE:

Dedicated industrial compact heater units for almost all applications demanding controlled heating., Low reactive I/P Power., Input under voltage protection., No effect of load on mains supply, Can be used with PID, PLC for integrating with automation., Close loop control., Output current limit., Linear relationship between control voltage & load power.

ADVANTAGE:

Power Regulator can be used to provide safe & efficient control of electrical power in a wide variety of application. It replaces the present method of heater controls.

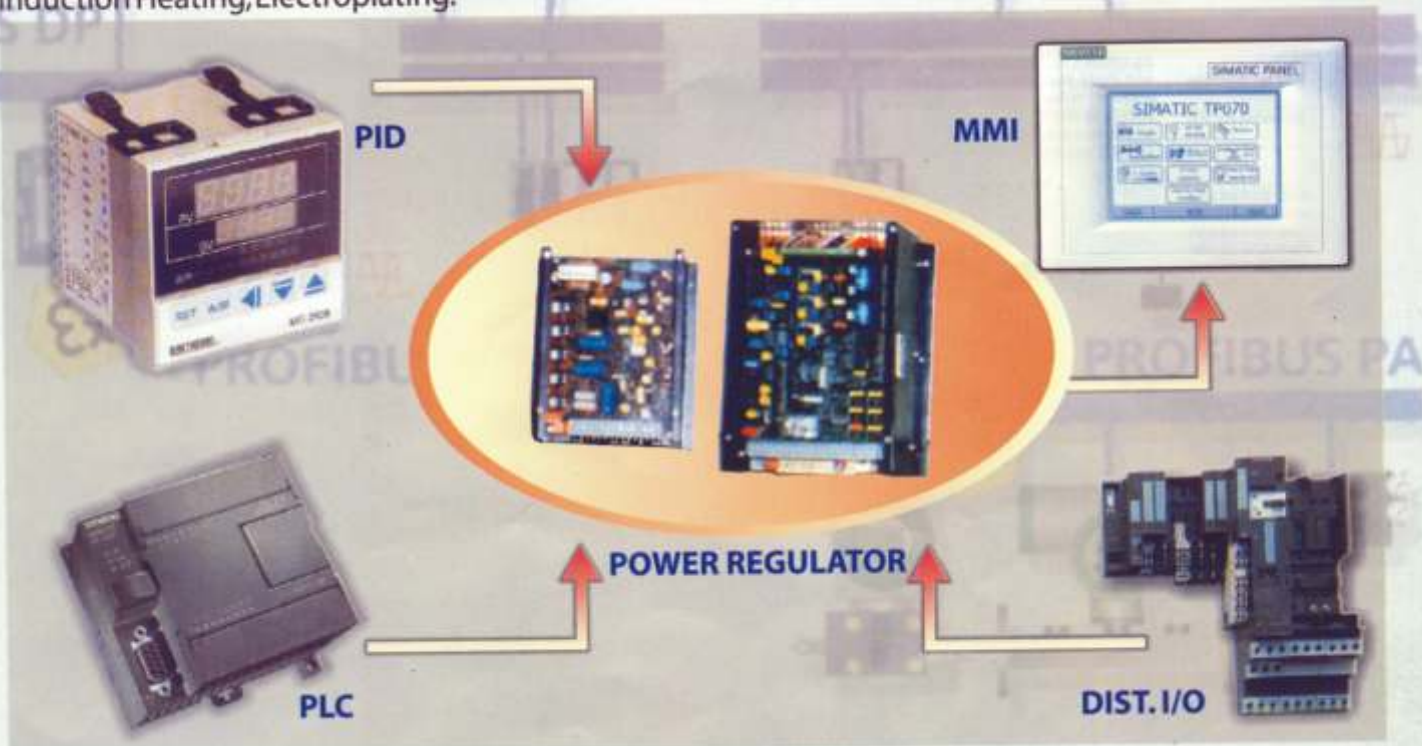
There is no wear and tear due to absence of many moving parts.

The unit can be driven from two points controllers. This versatility makes it far more superior than contactor control. Especially the facility of using it with continuous controllers result in almost stepless output, not attainable with contactor technique.

It is a modern design and offers reliable operation and accurate control. A single system (Power regulator) that incorporates the high reliability, Compact design, and can be connected via analog interface to higher automation.

APPLICATION:

Industrial Furnace, Textile Industry, Industrial Ovens, Drying & Smelting ovens, Extruders, Food Industry, Cable Industry, Rubber Processing machinery & industry. Induction Heating, Electroplating.



HARMONIC ANALYSIS

NEED FOR CARRYING OUT HARMONIC ANALYSIS:

A vast majority of Electrical loads in low industrial installations are inductive in nature. Typical examples are Motors, Transformers, Drives, Fluorescent lighting. Such loads consume both Active and Reactive Power. The Active Power is used by the load to meet its real output requirements whereas Reactive Power is used by the load to meet its magnetic field requirements. The Reactive Power (inductive) is always 90 deg. lagging with respect to the Active Power. It is thus a reality that the flow of Active and Reactive Power always takes place in Electrical installations. This means that the supply system has to be capable of supplying both Active & Reactive Power.

The Supply of Reactive Power from the system results in reduced installation efficiency due to increased current flow for a given load. Higher voltage drop in the system. Increase in losses of Transformers, Switchgears and Cables. Higher KVA demand from the supply system. Levy of penalties by the Electrical supply authorities

It is therefore necessary to reduce & manage the flow of Reactive Power to achieve higher efficiency of the Electrical system and reduction in cost of Electricity consumed. The most cost-effective method of reducing and managing Reactive Power is by Power Factor improvement through Power Capacitors.

Due to changing nature of modern electrical installations it has now become necessary to use various types of fixed and variable power capacitors to achieve desired power factor improvement.

The methodology followed to achieve a consistently high power factor under modern application conditions is referred to as "REACTIVE POWER MANAGEMENT" therefore involves proper selection and use of the following products.

- Power Capacitors.
- Automatic Power Factor Correction systems.
- Detuned Harmonic Filters.



KUKSONS ELECTRONICS PVT. LTD.

Regd. Office & Works :

Unit-14, Electronic Sadan 3, M.I.D.C.,
Bhosari, Pune - 411 026.

Phone : 91 20 27123116 / 4110418

Fax : 91 20 27129085

Email : kuksons@pn2.vsnl.net.in

website : www.kuksons.com

Branch Office :

Panalkar Building, Plot No. 146,
Opp. The Kolhapur Steel, Ltd.,
Pune-Bangalore Highway At. Naigaon,
Tal. : Hatkanagale, Dist. Kolhapur.

Phone : 9823028923, [REDACTED]
Email : kuksons@pn2.vsnl.net.in

website : www.kuksons.com