



AS AUTOMATION & ENGG SERVICES PVT. LTD.

ELECTRICAL BROCHURE



www.asautomation.in

Main Electrical Services of AS Automation & Engineering Services

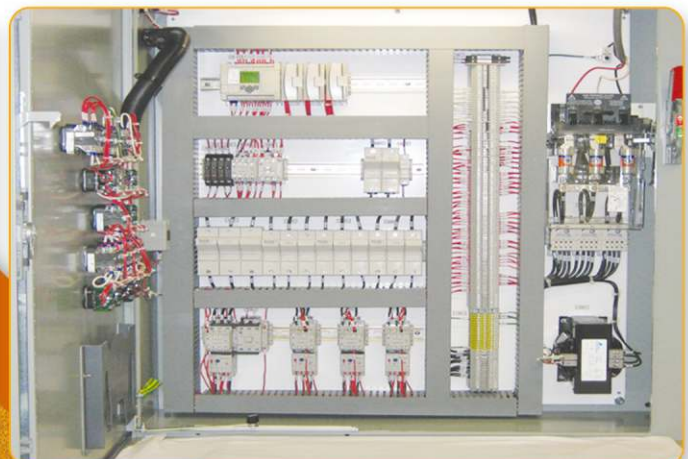
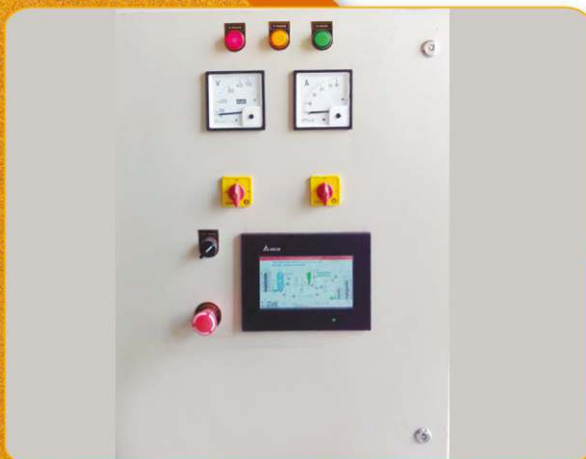
- ✓ Electrical Design & Implementation of LV & HV Systems
- ✓ Electrical Control Panel Builders
- ✓ Electrical Erection & Commissioning
- ✓ EMS (Energy Monitoring System) Projects
- ✓ Supply, Commissioning, Operation & Maintenance of control Panels
- ✓ Cable Laying, Termination, Installation of Electrical Equipment

ABOUT US

Moving on deep Knowledge and industrial experience, We are offering a very effective solution for electrical engineering. The offered services are offered by our proficient professionals by using progressive technology and tools. **AS Automation & Engineering Services Pvt Ltd** manufactures high-quality control panels for a wide variety of applications. Our domain expertise has enabled us to come up with excellent collection of nearly all types of Industrial Panel. Choose from PLC Panels, Motor control center panels, APFC panels, Power control center panels, Variable Frequency Drive(VFD)Panels, Junction Boxes and Power distribution boxes & Lighting panels . Our panel enclosures are manufactured using superior-grade raw-material procured from some of the well-known and reliable vendors of the industry, so we do can supply Stainless steel panels, Metal steel panels and Flame proof panels and Weather proof panels. Our products are fabricated under the guidance of experienced professionals to ensure production of defect-free & superior quality range.

CONTROL PANELS

- ✓ Complete design & assembly capability
 - ✓ Independent QC department
 - ✓ In-house automation team
 - ✓ Site commissioning team
 - ✓ Schematic & Outline drawing
 - ✓ Completely prewired, for easy installation
 - ✓ CNC construction
 - ✓ Safe and reliable operation
 - ✓ Certified panels from IP42 to IP65
 - ✓ Components from Tier - 1 vendors
 - ✓ Labelled and colour coded wiring
 - ✓ 3D-CAD (E-plan & Auto CAD)
- ✓ We engaged in supplying and manufacturing a wide range of Control Panel.
 - ✓ These panels are made using quality raw materials as these high performing control panels are used widely over in many industrial and other applications.
 - ✓ The flawless design and superior framing of these panels have made it the first choice of the customers.



PCC (POWER CONTROL CENTER) PANELS

Owing to our expertise in this domain, we are engaged in offering a supreme quality PCC Panel that is used to supervise and control the voltage of power systems. Power Control Center panels for various industrial applications to provide reliable and effective distribution service. They are used to supervise and control the voltage and reactive power of the power system.

The panels will undergo pretreatment for Decreasing, Water rinsing & De-rusting/ Phosphating, It will be painted with Powder Coated or Synthetic enamel as per the requirements. Bus Bars / Internal Wiring uniform cross section and supported by SMC /DMC bases. Earthing Bus Bars will be running all along the Panel. Some of the Applications of PCCs are Dairy, Plastic industry, Refrigeration plants.



MCC (MOTOR CONTROL CENTER) PANELS

We design & manufacture low voltage switchgear panels & motor control center. Our in house design & good engineering practices in manufacturing combined together forms the ideal solution to the most demanding motor control applications throughout the industrial market.

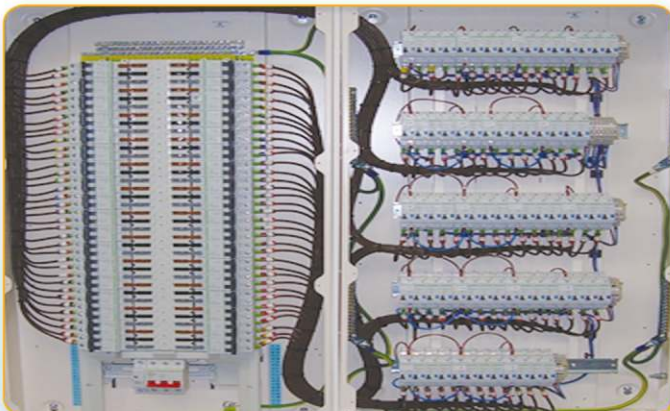
A motor controller is a device or group of devices that serves to govern in some predetermined manner the performance of an electric motor. A motor controller might include a manual or automatic means for starting and stopping the motor, selecting forward or reverse rotation, selecting and regulating the speed, regulating or limiting the torque, and protecting against overloads and faults. Every electric motor has a controller. The motor controller will have differing features and complexity depending on the task that the motor will be performing on.

- ✓ CNC construction
- ✓ Safe and reliable operation
- ✓ Certified panels from IP42 to IP65
- ✓ Components from Tier - 1 vendors
- ✓ Labelled and colour coded wiring
- ✓ 3D-CAD (Solid works & Auto CAD)
- ✓ Easy operation
- ✓ Controlling heavy starting currents.



LIGHTING PANELS

It allow the most cost effective ratings for the particular application. Two and three-pole breakers may be fitted with a range of internal accessories (shunt trip, undervoltage release, auxiliary switch, bell alarm). When fitted to the three-pole mounting base, the TEY family circuit breakers can be used in unit mount/lug-lug type installations.



APFC PANEL

- ✓ Modular to upgrade, up to 500 KVAR
- ✓ Capacitors : L&T, ABB, Epcos
- ✓ PF controllers : Epcos , L&T, Schneider
- ✓ Thyristorised or contactor based
- ✓ Designed with the concept of modularity.
- ✓ Easiness in operation, very low manual intervention.
- ✓ Avoid power factor penalty.



Designed with the concept of modularity which allows upgrading of kVAR rating as and when required.

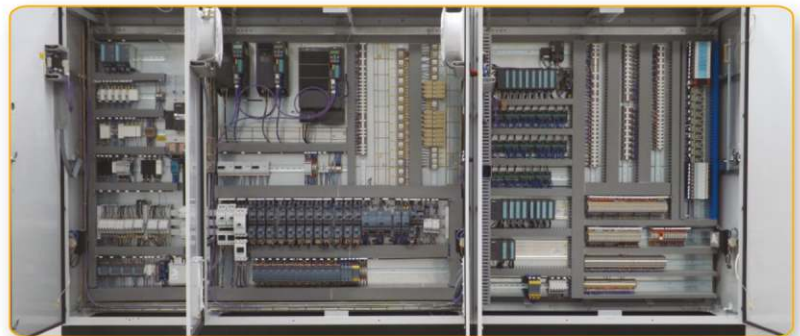
Advanced microprocessor based relay used to ensure real time power factor correction in the installation. Current limiting contractors are used which are specially designed for capacitor switch.

They are used to Supervise and Control the voltage and reactive power of the power system. We manufacture and supply a qualitative range of APFC panels, that are extensively used in various industries. These automatic power factor control panel (APFC) are designed and developed using advanced techniques and are capable of saving maximum power and energy. These APFC Panel are highly efficient and accurately monitor the reactive power in power systems for saving energy and can alter the system voltage as well as current.

PLC PANELS

We are a reckoned organization engaged in manufacturing and supplying a comprehensive range of PLC Panels. These panels are highly appreciated for their longer functional life, easy installation and low maintenance. Our professionals make optimum utilization of the resources and develop excellent quality range of panels for the clients. Our professionals make sure to deliver effective range of panels at nominal prices to the clients.

- ✓ SS / MS / FRP / FLP Panels
- ✓ Integrated with PLC, HMI, Barriers, VFD etc
- ✓ HMI's with screen size 3.5" to 22"
- ✓ PLC's from Siemens/ AB / FUJI / Mitsubishi
ABB / Schneider / Delta, etc
- ✓ Desk type / Floor standing / Wall mount
- ✓ Customised as per requirement



VFD (VARIABLE FREQUENCY DRIVE) PANELS

VFD Panels are designed to control the speed and torque of electric motors by varying input frequency and voltage to motors. VFD Panels are used as energy saving devices as they adjust motor speed under no load conditions or as required by the process. Such energy cost savings are especially pronounced in variable torque centrifugal fan and pump applications where there is large power reduction for a relatively small reduction in speed.

We design and manufacture a diverse range of VFD panels for varied applications (closed-loop and open-loop applications).

- ✓ AHU / Chiller control
- ✓ Pump / Motor / Blower speed control
- ✓ Reactor control
- ✓ Conveyor / Crane system
- ✓ Remote / Local / Bypass control options
- ✓ 1-400 HP (0.7457 KW- 298.28 KW) drive panel
- ✓ Siemens/AB / Danfoss / Mitsubishi / ABB
/Yaskawa / Delta



JUNCTION BOXES & PDBs

Leveraging on our state-of-the-art infrastructure, we are able to present Junction Boxes. These products are accessible for the customers in distinctive sizes and measurements, with a mean to suit their varied demands. Offered products are easy to install and maintenance free that increase their demand in the market. In order to meet varied demands of our customers, we are offering quality assured Power Distribution Boxes. These products are profoundly acknowledged in electric wiring in household and business places. These distribution boxes are made up of quality assured parts and sophisticated technology. Our expert's team designed these distribution boxes by utilizing their skills and years of experience.

- ✓ SS316 / SS304 / MS JB with gasketed trims
- ✓ FLP Junction boxes
- ✓ Top / bottom / side cable entry
- ✓ Aluminium / copper bus option



BUS DUCTS

We have emerged as one of the most prominent names in the industry engaged in manufacturing and supplying a wide range of Bus Duct. The ducts offered by us are widely used in automobile industry for varied purposes. Our items can be availed at reasonable rates in different grades and dimensions that suits best with the demands and requirements of our valued clients. We use high grade raw material for the manufacturing of these items that makes them durable.



CABLE TRAYS

Our range of products include mild steel cable tray, galvanized iron cable tray, aluminium cable tray, stainless steel cable tray.

Mild Steel Cable Trays

Offered Mild steel cable trays are fabricated according to set quality norms and parameters and accessible in different planes & sizes to meet the requirement of the customers.



Aluminium Cable Tray

Offered cable trays are profoundly acknowledged for their quality
Features :
Resistant most chemicals
Corrosion & Weather resistance



Galvanized Iron Cable Tray

We are generally acknowledged and requested by our regarded customers due to long service life and defect free nature of these products.



Stainless steel cable trays

Offered cable trays are free from any blemishes in all view points.

Features :
Excellent mechanical properties



LIGHTING ARRESTERS

Lightning conductors

Our PROTART - 60 ESE LIGHTING CONDUCTOR & PROTART - 30 ESE LIGHTING CONDUCTOR manufactured from high quality stainless steel which makes it durable against the toughest weather conditions. Whenever there is a change in electromagnetic field in the atmosphere, the ion generator inside these two conductor terminals begins to release positive ions into the atmosphere which attracts the lightning emissions on to the ESE rod.

Conventional Lighting Arresters

To meet the various requirements of the customers, we are involved in offering a wide assortment of Conventional Lighting Protection System.



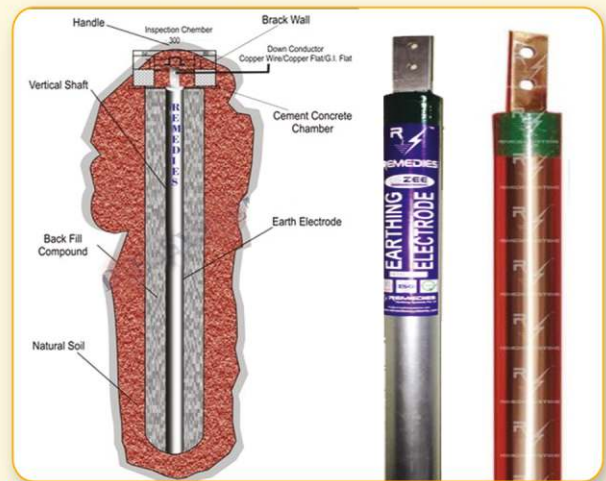
EARTHING

By understanding the demands of our patrons in the best possible way, we are increasingly engrossed in offering Electrical Earthing Installation Service to our clients. Delivered in tune with the standards defined by the industry, these services are enormously in demand.

- ✓ Chemical earthing
- ✓ Conventional earthing

By utilizing skills of our expert professionals and creative workers, we are engaged in offering conventional earthing Services and chemical earthing service. These services are provided by our adept professionals using advanced technologies. Provided service can be availed for our clients at affordable prices from us within stipulated time frame.

We are prominent companies for offering an extensive array of Earthing Electrode that are quality approved and have high compressive strength.



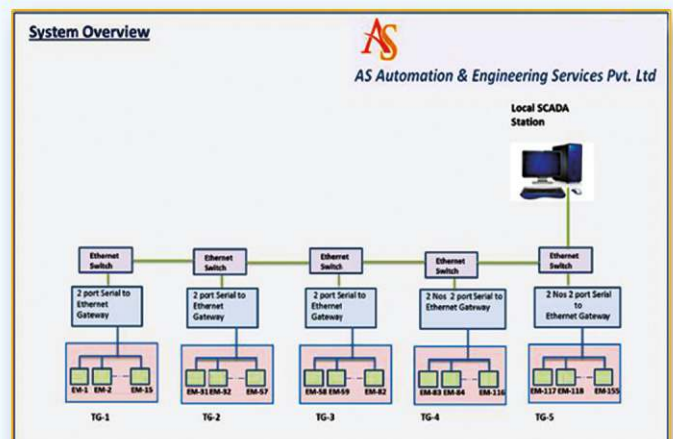
ENERGY MONITORING SYSTEM

Our offered Energy Monitoring System is manufactured by utilizing optimum quality raw materials and advanced technology by our vendors' skilled professionals. In order to ensure quality, the entire range is rigorously tested on various parameters. In tune with international standards, we provide the entire range in various specifications, as per the requirements of our clients.

Energy monitoring system [EMS] comprising of energy meter with LAN interface which can be connected with existing LAN network to collect the data instantaneously and store it in the database server. The energy meter inputs are taken from three current sensors to measure line current and three lines are connected to the energy meter to measure the line voltages. The web application manipulates the data and produce current data and manipulated data in the form of reports.

Features

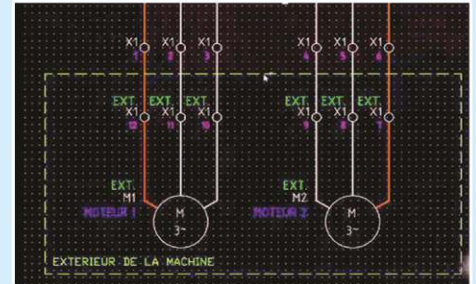
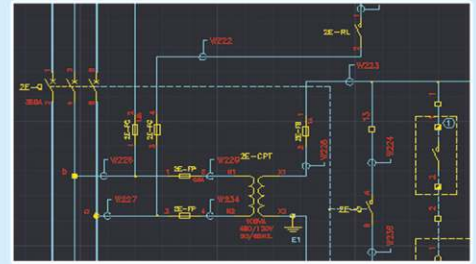
- ✓ Rugged construction
- ✓ Precisely designed
- ✓ Rust proof



ELECTRICAL DESIGN & DEVELOPMENT

- ✓ Understanding customer standards and requirements
- ✓ Design & Development of Electrical layouts
- ✓ Creation of SLD
- ✓ Electrical Engineering
- ✓ Electrical design and implementation of LV & HV systems
- ✓ Panel design and construction
- ✓ Supply, Commissioning, Operation & Maintenance of control panels

With the increasing complexity of electronic devices, computers have become imperative in **electrical design**, so we are designing electrical layouts by using E-plan & AutoCAD.



ELECTRICAL ACCESSORIES

- ✓ Cable Trays
- ✓ Cables
- ✓ Street light poles
- ✓ Earth Strips
- ✓ Earth Pit Material
- ✓ Switch Gear
- ✓ Lighting Access.
- ✓ DB's & JB's
- ✓ Panel Boards
- ✓ Power cables



FIELD ENGINEERING SERVICES

- ✓ Factory wiring
- ✓ Break down services
- ✓ Electrical maintenance
- ✓ Cable laying, Termination, Installation of electrical equipment etc.





WE DEAL IN

SIEMENS

ABB

Schneider
Electric

YASKAWA



C&S
electric

Allen-Bradley

Danfoss



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