

Control Wiring:

Panels are supplied with internal wiring using PVC insulated/FRLS/ZHFR 1.1 KV grade multi strand flexible copper conductor of minimum 1.5sq.mm cross section. Wiring associated with a particular phase uses the colour of that phase viz. Red, Yellow, or Blue. Wiring associated with earth uses green. Insulation and neutral are in black colour. All the cables have crimped terminations and they are identified with printed tubes at both ends, showing the wire number as indicated in the control diagrams.

Testing:

The panels are completely assembled, wired, adjusted and tested for operation under simulated conditions to ensure accuracy of wiring, correctness of control scheme and proper functioning of all equipment. The test results are recorded in a Test report submitted to the client. CPRI Test certificate has been obtained, confirming to short circuit testing, IP 55 testing, Insulation testing etc.

Documentation

We provide extensive documentation as per IEC format on Autocad electrical format.



CPRI
CERTIFIED

So when you place your trust on Autosys, you get exactly what you ordered for, without any compromises.

EXCELLENCE IN AUTOMATION



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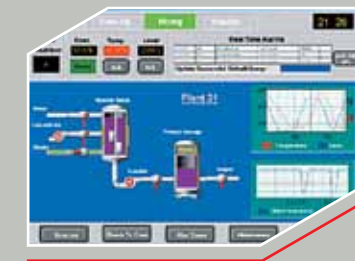
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Power and Automation
Control Panels
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CPRI CERTIFIED



PCC Panel



SCADA



Filter Bed Panels



AC Drives Integrated



Control Panels



MLDB

Product range

- Main Switchboards
- Motor Control Centre
- Power Control Centre
- APFC Control Panels
- UPS Power Distribution Panels
- DG AMF, SYN, PLC & SCADA Panels
- VFD & Soft-starter panels
- Outdoor Kiosks
- Control Desks
- Stainless Steel Panels
- Other customized Panels



MV Panel



SMB

AUTOSYS is one of the leading manufacturers and suppliers of Power and Automation Control Panels in India.

We specialize in LT Panels, APFC Panels, Power Motor Control Centre, Power Control Centre, Motor Control Centre, DG Synchronizing Panels, Control & Relay Panels, VFD & Soft Starter panels and L.T. Bus Ducts (segregated & non segregated as per Form 3 and Form 4 of IEC). These are custom designed for each customer and project. We prepare busbar calculations, SLD, schematic drawings, bill of materials, terminal diagrams etc. based on the specification & systems details given by the customer. Single line diagrams are followed and translated to Panel GA drawings based on the electrical room layout and cable entries.

We also mass produce standardized panels and control solutions.

Why AUTOSYS?

- ISO 9001:2008 certification
- Compliance to all IS and IEC standards
- CPRI Type Tested and Certified
- Modular design for future flexibility
- Fast Execution and delivery
- 10,000 SFT of integrated infrastructure
- In-house bus bar shearing, punching and bending facility
- In-house screen printed ferruling system with cross ferruling, for ease of identification
- Specialists in large project installations
- Strong and experienced team

Application Sectors:

- Continuous Process Manufacturing industries such as FMCG, Chemicals, Fertilizers, Steel etc...
- Industrial, Building and OEM segments. • Power / Sub-stations

Construction:

The panels are metal-enclosed, free-standing, compartmentalized, modular type, suitable for indoor and outdoor installations. The Panels are dust and vermin proof and the enclosure provides protection as per IP- 52, IP-54 and IP-55.

The Panel boards are fabricated out of adequate thickness mild steel structural sections. Each cable chamber has cable entry from top or bottom with suitable removable gland plates. The cable chamber is provided with suitable supporting arrangement between the gland plate and terminals. XLPE/EPDM/Neoprene gaskets are used for joints, doors and covers.

Bus Bars:

All the busbars are air insulated and made up of high conductivity, tin coated copper or electrolytic grade aluminum. Busbars have a fault withstanding capacity equivalent to 35/55/65kA, 1 Sec, depending on customer specification.

All bus bars are fully screened in their own compartment running throughout the length of the panel. The busbars are provided with holes for future expansion. Suitable segregation is provided as per IEC 61439 standards with compliance to Form 3 / Form 4, in between busbar chamber and adjoining compartments. Integrated bus bar systems from reputed vendors are provided as an option. Detailed busbar calculations required to comply with IEC standards, are transparently shared with our clients.

The busbars are PVC sleeved with colour strips of Red, Yellow, Blue and Black. The busbars are properly segregated, suitably braced with insulated supports (DMC/FRP/SMC) placed at appropriate intervals to withstand the electro-magnetic stresses during short circuit. Minimum electrical clearances are maintained between Phase, Neutral and Body as per IS and IEC standards.

