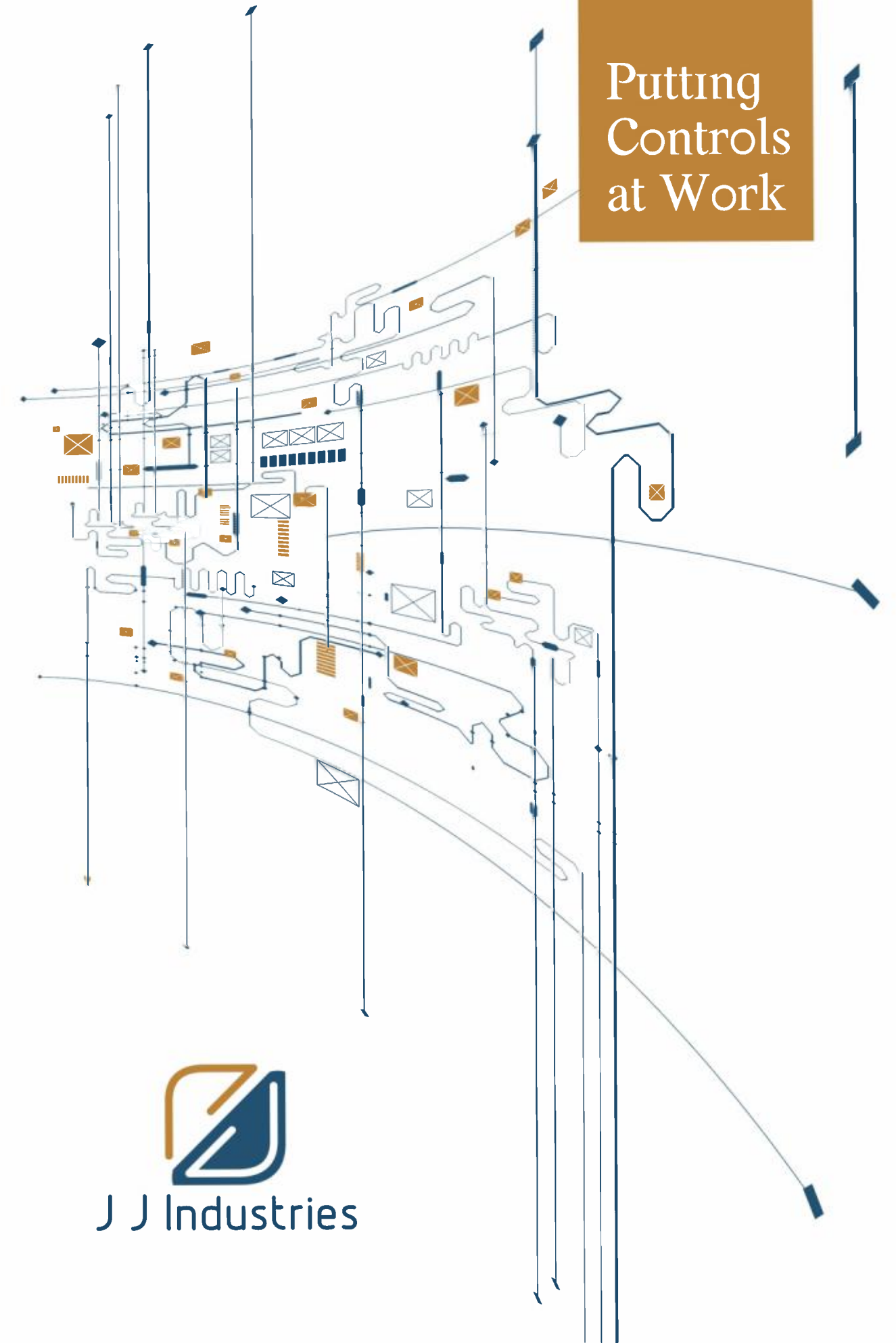


Putting  
Controls  
at Work



J J Industries

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+91 79 2220 4600 | +91 93750 17170 | info@jjindustries.in

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## ▲ CORE VALUES

### **Teamwork**

We collaborate with our customers, and one another to optimize the sum of all individual efforts, while becoming active participants in the communities where we live and work.

### **Integrity**

We provide honest, ethical and respectful services to our customers and make sure that our work speaks more than our words.

### **Excellence**

We always provide our customers with excellent products and services, which meets their expectations.

### **Innovation**

We nurture and encourage our people's desire and ability to be innovative in everything, from products to processes. We foster each person's freedom to come forward with technical, business, sales & efficiency ideas and their actions to implement those.

### **Accountability**

We encourage responsibility on all levels, using initiative, as well as, making sure the end result always meets client expectations.

## ▲ VISION

To become a strategic partner to our customer and play a role that goes beyond supplying products.

## ▲ MISSION

To manufacture high quality products of international standard that give our customers a competitive edge in their business, so that we see every customer smile.

JJ Industries, an ISO 9001-2015 certified company, located in Ahmedabad, is one of the leading manufacturer of Custom built LT Electrical Control Panels in India. The flourishing company forming the core part of a family-owned business, began its journey in 1981 under the leadership of visionary technocrats with innovative production expertise. Since its inception, JJ Industries has mastered the engineering of manufacturing world class electric control panels by inducing latest technology tools & machineries and modern testing equipments. For over 35 years in this industry, JJ has now emerged as an industrial benchmark in manufacturing and supplying premium quality control panels to core industries across the country.

JJ Industries specialised production line varies from L.T Panels, Motor Control Centre, Power Control Centre, Synchronizing Panel, Distribution Boards, Control Desks, Bus Ducts, A.C Plant Panels, APFC & RTPFC Panel and H.T

Panels. The company has designed and executed prestigious projects ranging from OEM (Original equipment Manufacturer), Pharmaceutical, Food Processing, Hospitality, IT, Hospital, Telecom, Entertainment, Textile and more.

JJ Industries production facility is spread over 1500 sq. yards with well-established Fabrication Shop, Machinery Shop, Tool Room, Assembly Section, Powder Coating Plant and latest testing equipments, all available under one roof. JJ Industries had been certified by The Central Power Research Institute (C.P.R.I) Bhopal for carrying up to 6300 Amps Current capacity at a fault level of 70 KA. The company comprises of well-educated and well-equipped Technocrats, Engineers and Technical Associates who are committed to deliver quality products in shortest lead time based on the client's requirements.



## INFRASTRUCTURE

The company's infrastructure consists of in-house production facilities such as Fabrication Shop, Seven Tank Process Plant, Painting Shop, Assembly Section and Testing Section. The site is located in the heart of the city where all the amenities like water, power, transportations, labour, etc. are easily available. In addition to this, the Company infrastructure consists of an office which is well-equipped with necessary apparatus required creating engineering designs and automation management. With latest software & hardware that facilitates efficient application for product designing, project administration & monitoring, preparation of budgets & related estimations, inventory management modules and communication, helps us to provide satisfactory product and services to our customers.

## ENGINEERING AND DESIGN

The company has installed a full-fledged Computer Aided Design and AutoCAD System allowing full flexibility for the design of custom built panels matching client's requirements. This also facilitates fully computerized data bank for constant revisions of the design.

## FABRICATION

JJ Industries ensures best quality output with world's most advanced fabrication technology. The state-of-the-art Fabrication Workshop, spread over 700 sq. yards is equipped with machineries which includes

Energy mission NC shearing machine | Nugen hydraulic press break machine | Bhavya power press machine | Ambica power press machine | Unipunch fly press machine | Unipunch hole piercing tool | Unipunch corner notching tool | Welding machines | Spot welding machine | Esab MIG welding machine | Bench drill machine | Hydraulic power hacksaw machine | Bosch portable jigsaw machine | Bosch portable drill machine | Bosch portable grinding machine | Tool grinder | CNC Turrent Punching

## POWDER COATING PLANT

JJ Industries invest in modern equipments to keep itself abreast with the world class technology. The powder coating plant consists of Clariant seven tank pre-metal treatment plant, Statfield powder coating system, Statfield powder coating booth, Rushi powder coating oven, Air compressor, Overhead crane, Lifting pallet and Electric paint baking oven to ensure excellence in finishing.

## ASSEMBLING AND WIRING SECTION

Assembling service at JJ is rendered in complete accordance with the set industrial standards. Offered services are imparted by our professionals using sophisticated technology at par with the current market evolution. Assembling parts are manufactured using the finest grade raw materials. The assembly facility includes Siddhapura hydraulic busbar bending machine, Siddhapura hydraulic busbar cutting machine, Siddhapura hydraulic busbar punching machine, Hydraulic power hacksaw machine, Welding machines, Hydraulic portable busbar bending machine, Daylight busbar bending machine, Bench drill machine, Bosch portable jigsaw machine, Bosch make portable drill machine, Bosch portable grinding machine, Letatwin ferrule printing machine, Crimping tool, Overhead crane and Air compressor. The insulation of Bus Bars is carried out on B&D hot air gun sleeving machine.

## QUALITY CONTROL & CERTIFICATION

All the products at JJ are manufactured under stringent quality system and stage-wise quality check-up to ensure superior quality of the products. The use of premium equipments and latest technology has made the company proficient in manufacturing world class products, which has helped it to stand distinct in the electrical engineering world.

JJ has achieved ISO 9001:2015 certification as a testimony for its commitment to quality. It has also been approved and certified by The Central Power Research Institute (C.P.R.I) Bhopal up to carrying 6300 Amps Current capacity at a fault level of 70 KA, along with IP protection test certificate to carry up to 65 IP designs.

The testing lab is well equipped with instruments that ensure quality and reliability of end solutions with high precision. Over the years, JJ has established itself as a model of quality and perfection to achieve the highest level of client satisfaction.

## TESTING

In order to ensure best quality output, JJ Industries engages in continuous quality testing throughout the manufacturing process. This is possible through acquisition and optimum utilization of well-calibrated testing equipments installed at the manufacturing unit consisting of:

Meco megger meter (insulation tester) | Meco phase sequence meter | Ashok HV tester | Meco digital clamp meter & multimeters | Samsonic paint thickness meters | Cross hatch cutter | Vernier caliper | Continuity tester.

## POWER CONTROL CENTRE PANEL

Power Control Centre are used for intelligent selection of transmitter power output in a communication system to achieve good performance within the system. These panels are used for diverse industrial applications. We are engaged in manufacturing PCC up to 6300 busbar rating. These panels are manufactured in various sizes based on client's specifications. The panels are totally dust and vermin proof. The entire panel will undergo pre-treatment covering decreasing, water rinsing & de-rusting/phosphating. It will be synthetic enamel painted or powder coated as per requirements.

### SPECIFICATIONS

Reference standard	ISI:0000
Operational system	415V AC 3 phase, 3 or 4 wire, 50Hz
Operational current	up to 6300A
Short time rating	up to 70KA/sec.
Degree of protection	IP-42/IP-54
Max. Temp. Rise	40°C
Cover Ambient	45°C
Form of separation	3B/4B
Vertical bus bar load current	1600A (two tier arrangement)
Busbar	EC grade copper or aluminium.
Operational height	300-1800 mm
Max. Height of panel	2475 mm
Feeder width	450/500/700/900/1000/1200 mm.
Depth of panel	up to 1200 mm



### FEATURES

- High degree of flexibility available with provision of mounting ACB and Automatic Transfer Switch for the incoming supply
- Multitier compartmentalized
- Vertical bus for two-tier feeders up to 1600A
- Short-circuit rating planned for 65KA
- Modular design extensible at both sides
- Protection, fault indications, mechanical/electrical/PLC interlocking is provided
- Arrangement for receiving supply through power cable/bus duct

## MOTOR CONTROL CENTRE PANEL

Motor Control Centre are used to control centralized operation of all the motors located at various places inside a plant. MCC takes care of controlling, monitoring & recording of the power supplied to motors. These have the capacity to feed larger loads and are designed as per the client's specifications. The MCC panels are available with multiple power stabs that help in supporting high capacity industrial motors. These MCC panels are conventional to ISI standards and designed with utmost care and stringent quality inspection to ensure client satisfaction. This range is available in standard as well as customized size.

### SPECIFICATIONS

Reference standard	ISI:0000
Operational system	415V AC 3 phase, 3 or 4 wire, 50Hz
Operational current	up to 4000A
Short time rating	up to 50KA/sec.
Degree of protection	IP-54 (indoor) / IP-55 (outdoor)
Max. Temp. Rise	40°C
Cover Ambient	45°C
Form of separation	3B/4B
Busbar	EC grade copper or aluminium.
Operational height	300-1800 mm
Max. Height of panel	2275 mm
Cable Alley width	300 mm
Depth of panel	up to 1200 mm

### FEATURES

- Full voltage non-reversing and full voltage reversing starters multitier compartmentalized
- Control bus in requisite number throughout the length of the panel
- Single-front or double-front arrangement with independent droppers for front and rear panel
- Analog or digital metering
- Custom design
- Fixed type, free standing, floor mounting
- Extendable to both sides
- Cubical type compartmentalized & non-compartmentalized construction
- Top or bottom cable entry
- Design facilitating adequate space for cable and bus duct termination and providing required cable support



## A P.F.C PANEL

Automatic power factor correction panels are used to maintain the power factor in the desired range. APFC Panels, designed using advanced technology are capable of saving maximum power and energy. These panels can effectively and automatically manage quickly changing and scattered loads along with the retention of high Power Factor. These panels eliminates the need for constant manual interventions, along with maintaining high power factor, cutting down electrical expenditure.

### SPECIFICATIONS

Reference standard	IEC : 61439-1, IS : 8623
Operational system	415V AC 3 phase, 3 or 4 wire, 50Hz
Operational current	up to 4000A
Short time rating	up to 50KA/sec.
Degree of protection	up to IP-52
Max. Temp. Rise	40°C over ambient temp 45°C
Form of separation	up to 3B
Busbar	EC grade copper or aluminium.
Capacitor Operating Voltage	415-525 VAC
Switching	Conventional/Thyristor based
PF Controller	Up to 16 stage single controller Up to 24 stage (master-slave configuration)
De-tune Filter	7% upon demand
Operational height	300-1800 mm
Max. Height of panel	2275 mm
Cable Alley width	300 mm
Depth of panel	up to 1200 mm
Cooling	Natural/Forced



### FEATURES

- Improves efficiency of the system
- Corrosion Resistant
- Electrical Insulation
- Reduces KVA demand charge
- Reduces power loss
- Low maintenance cost
- High efficiency
- Protects electrical equipments
- Prevents leading power factor in the installation during low load conditions

## AMF & D.G SYNCHRONIZING PANELS

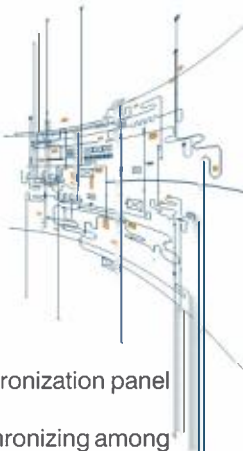
AMF & D.G Synchronizing Panels are used to run critical loads during power failure. PLC's are programmed to sense power loss, initiate and synchronize diesel power generation with no manual interruptions. We offer D.G synchronizing panels which are based on auto/manual sharing, auto synchronising, auto KW & KVAR sharing and load dependent start/stop features. Industries that are sensitive to power loss are dependent on multiple alternate power sources, demanding AMF/Synchronization control panels for seamless transition. Our panels are equipped with touch screen programmable logic controllers with advanced programs to solve the most complicated load requirements. Changing of schemes are made through PLC & software which work in tandem with the generator control package that take care of power monitoring, communication, display as well as protection. For any type of load addition or reduction, manual intervention with respect to D.G set operation is not required. Multiple D.G sets can be synchronised with a panel ranging from 2 D.G sets to 6 D.G sets. We are engaged in offering a technologically advanced range of dg synchronization panel, which are available in different specification.

### SPECIFICATIONS

Reference standard	IEC : 61439-1, IS : 8623
Operational Voltage	110V/230V AC/DC, 415V AC
Control Voltage	24V/110V/220V AC/DC
Phase/Frequency	3 Phase/50Hz
Degree of protection	IP-54/IP-55
Form of separation	2B
Operational height	300-1800 mm
Max. Height of panel	2275 mm
Width of panel	700/900 mm
Depth of panel	600/1000/1200 mm

### FEATURES

- Operational efficiency
- Easy programing
- Low maintainance
- Durable
- Quality tested
- We offer a wide range of D.G synchronization panel available with PLC configuration
- Woodward controller provide synchronizing among D.G sets, G.G sets, Emergency and Grid Supplies.
- Woodward controller can provide synchronization through bus coupler also.



## POWER DISTRIBUTION PANEL

Power Distribution Panels are designed to distribute electricity in different section of an industry where short circuit and overload protection are required. This device is fitted in various protective relays to receive inputs, trigger outputs and monitor system. During faults in electric distribution, this device can trip the circuit breaker to avoid causing damage. The distribution panel enables main incoming of electric board and generator with bus coupler permitting all the outgoing feeders. This process can be executed either on electric board supply or generator supply. Moreover an interlock system is provided to prevent clash between electric board supply & generator supply. We manufacture Power Distribution Panels in various capacity based on the client's requirement.



### SPECIFICATIONS

Reference standard	IEC : 61439-1, IS : 8623
Operational system	415V AC 3 phase, 3 or 4 wire, 50Hz
Operational current	up to 6300A
Short time rating	up to 70KA/sec.
Degree of protection	IP-42/IP-54
Max. Temp. Rise	0°C over ambient temp 45°C
Form of separation	3B/4B
Busbar	EC grade copper or aluminium.
Operational height	300-1800 mm
Max. Height of panel	2175 mm
Feeder width	up to 1200 mm
Depth of panel	up to 1200 mm

### FEATURES

- Distribution panel facilitates main incoming of electric board
- Generator with bus coupler enabling all the outgoing feeders
- Runs on electric board supply or generator supply
- Interlock is provided to avoid any clash between electric board supply & generator supply
- Strong and sturdy
- Easy usage
- Can be connected to other panels
- Equal current distribution

## PLC & DRIVE CONTROL PANEL

PLC based automation panels are designed and manufactured for process automation and building automation power management. These drive panels are used to monitor machines and provides on-site operating control of machines. These drives are available in AC as well as DC options which are PLC based and used to save electricity in industries with huge power requirements. They save up to 30% of electricity. Drive panels are manufactured using genuine grade materials with high quality and efficiency level. These panels are available in various specifications to meet application area requirements.



### SPECIFICATIONS

Reference standard	IEC : 61439-1, IS : 8623
Operational System	415V AC 3 phase, 3 or 4 wire, 50 Hz
Operational current	up to 1000A
Degree of protection	Up to IP-54 (indoor)
Max. Temp. Rise	40°C over ambient temp 45°C
Busbar	EC grade Copper or Aluminium
Form of separation	3B/4B
Operational height	300-1800 mm
Max. Height of panel	2275 mm
Cable Alley width	Minimum 300 mm
Depth of Panel	Up to 1200 mm

### FEATURES

- High Durability
- Tensile strength
- Resistance to adverse conditions
- Saves Electricity up to 30%
- High Efficiency
- Low Cost and maintenance

## METER PANEL

Meter Panels are used to house KWH meter for monitoring or billing purpose from utility supply provider or end user. These panels are available in customizable sizes to suit any KWH meter available. In high rise apartment complexes or cluster commercial establishments, meter panels are used for centralized and easy meter reading and billing. These panels are generally approved by the electricity authorities and involve sealing of compartments in such a manner that power theft is rendered impossible.



### FEATURES

- Available in 6, 9, 12, 24 way meter panels
- Available with or without panel isolators
- Pre-punched for all incoming and outgoing cabling
- 8 pre-drilled holes for easy mounting
- Economically priced
- Fast and convenient installation and wiring

### SPECIFICATIONS

Reference standard	IEC : 61439-1, IS : 8623
Operational System	415V AC 3 phase, 3 or 4 wire, 50 Hz
Operational current	up to 800A
Degree of protection	IP-43 (indoor)/ IP-65 (outdoor)
Max. Temp. Rise	40°C over ambient temp 45°C
Busbar	EC grade Copper or Aluminium
Form of separation	2B
Operational height	300-1800 mm
Max. Height of pane	12175 mm
Cable Alley width	Minimum 300 mm
Depth of Panel	Up to 400 mm

## HVAC CONTROL PANEL

HVAC (Heating, Ventilation and Air Conditioning) Panels are used to regulate the heating and air conditioning system. These panels are manufactured using progressive technology and innovative machines. These panels are conventional to ISI standards and designed with utmost care and stringent quality inspection to ensure client satisfaction. This range is available in standard as well as customized size.



### SPECIFICATIONS

Reference standard	IEC : 61439-1, IS : 8623
Operational system	415V AC 3 phase, 3 or 4 wire, 50Hz
Operational current	up to 4000A
Short time rating	up to 50KA/sec.
Degree of protection	IP-54 (indoor) / IP-55 (outdoor)
Max. Temp. Rise	40°C over ambient temp 45°C
Form of separation	3B/4B
Busbar	EC grade copper or aluminium.
Operational height	300-1800 mm
Max. Height of panel	2275 mm
Cable Alley width	300 mm
Depth of panel	up to 1200 mm

### FEATURES

- Full voltage non-reversing and full voltage reversing starters multitier compartmentalized
- Single-front or double-front arrangement with independent droppers for front and rear panel
- Control bus in requisite number throughout the length of the panel
- Analog or digital metering
- Custom design
- Fixed type, free standing, floor mounting
- Extendable to both sides
- Cubical type compartmentalized & non-compartmentalized construction
- Top or bottom cable entry
- Design facilitating adequate space for cable and bus duct termination and providing required cable support

## LT BUSDUCTS (AIR INSULATED/SANDWICH TYPE)

Busduct is mostly used in industrial location to seamlessly distribute power from one end of the building to another. These ducts are manufactured using copper or aluminium to protect it against mechanical damage. The duct is also dust and vermin resistant. The key advantage of Busduct is its flexibility and adaptability to a wide range of requirements, which allows us to design them according to industry specific requirements.

### SPECIFICATIONS

Reference standard	IEC : 61439-1, IS : 8623
Operational System	415V AC 3 phase, 3 or 4 wire, 50 Hz
Operational current	up to 6300A
Short time rating	up to 70KA/sec.
Type	Totally Enclosed, Air Insulated &sandwich Type
Degree of protection	Up to IP-54 (indoor)/IP-65 (outdoor)
Max. Temp.	Rise40°C over ambient temp 45°C
Busbar	EC grade Copper or Aluminium
Earthing	separate earth bus provided on enclosure
Phase cross over	Optional if required

### FEATURES

- Busduct systems fulfil four different applications: single loads, multiple loads, riser, and service entrance.
- Highly flexible and versatile
- Superior electrical design: low impedance, higher short-circuit system and lower electromagnetic generation
- Light weight for quicker and easier installation
- Saves time and labour cost
- Improved safety
- Low-cost maintenance

## FEEDER PILLERS & KIOSKS PANELS

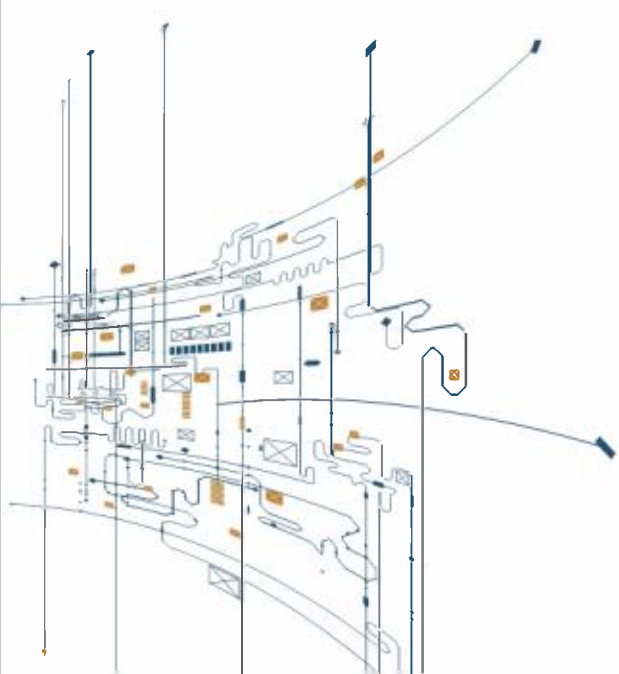
Feeder Pillars or Kiosk Panels are used to monitor and distribute power in outdoor applications such as transformer yard, terrace building or group housing projects. These panels are sturdy and resistant to weather conditions. The Feeder panels are provided with rain canopy. The exterior of feeder panel is welded, hence retaining modular advantages, enhancing flexibility, safety and versatility from the interior.

### SPECIFICATIONS

Reference standard	IEC : 61439-1, IS : 8623
Operational voltage	415V AC
Operational current	up to 4000A
Rated insulation voltage	690V AC
Degree of protection	IP-55/IP-65
Form of separation	2B/3B/4B
Configuration	Fixed

### FEATURES

- Durable
- High performance
- Affordable



## CLIENT SEGMENTS



Industrial Infrastructure



Chemicals & Dyes



Textile



Telecom



Pharmaceutical



Food Processing



Hotels



Healthcare



I.T / I T E



Hospital



Entertainment



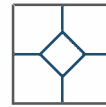
Fertilizer Industries



Paper/Printing/Packing



Agriculture &  
Food Industries



Ceramic &  
Tiles Industries



Steel Industries