



# FULX

## Distribution Low Voltage Switchboard

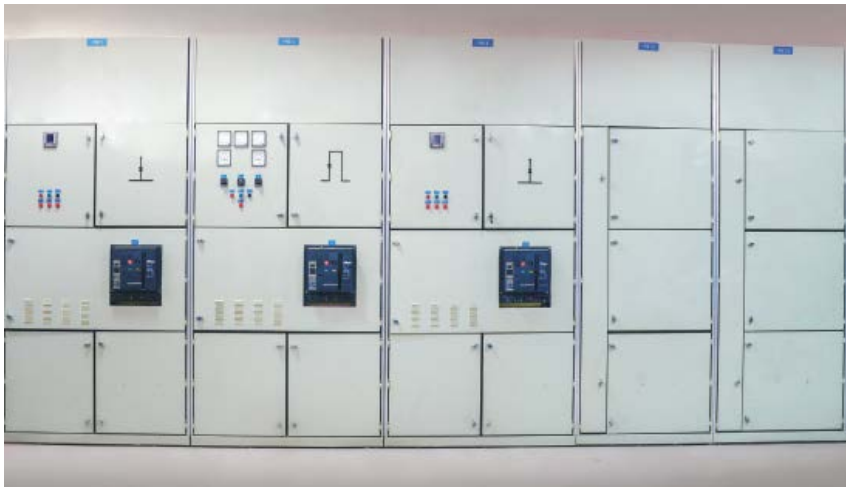
### FULX Power Distribution Board

Nowadays, data is the key to saving time and money in any automated process.

expertise of Eplan, the System and automation know-how of FULX. The virtual prototype is the heart of the digital workflow, linking together all process steps seamlessly and thus establishing the basis for efficiency and effectiveness from engineering through to automated production and beyond.

The FULX low-voltage switchboard is a type-tested and designed in draw out, fixed and plug-in type.

FULX structure has been beloved for all of our employers not only in strength (simple assembly than SIVACON, Triangular section of chassis bars and base plinth, suitable for small areas), but also in performance.



It can be used for all applications up to 7400 A:

- As Power Control Center
- As Main Distribution Board
- As Sub-Distribution Board
- As Motor Control Center (MCC)
- As Capacitor Bank
- As Automation and BMS
- As Marshaling and Measuring



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### General Characteristics

|  |   |
|--|---|
| Nominal Voltage (V)                        | 500   |
| Frequency (Hz)                             | 50 / 60   |
| Dielectric Voltage (kV)                    | Up to 2.5 (1 S)   |
| Insulation Voltage ( $\Omega/V$ )          | > 1000 (IEC 60439-1)  |
| Ambient Temperature ( $^{\circ}\text{C}$ ) | 35  |
| Installation                               | Ventilated Room   |
| Ingress Protection (IP)                    | 42  |
| Installation Altitude (m)                  | Unlimited (Depend on Low Voltage Control & Auxiliary Equipment) |
| Transportation                             | By Hook or Belt   |
| Cable Inlet/Outlet                         | Top or Bottom   |
| Painting                                   | Electrostatic Powder or Hybrid (Epoxy & Polyester)              |
| Dimension (W×D×H) (mm)                     | 600/800/1000 × 600/800 × 2000                                   |
| Steel Sheet Thickness (mm)                 | 2   |

### Advantages

- Possibility of design and manufacturing in Fixed, Plug-in and Draw out types.
- Fully Type Tested (TTA).
- Modular design for easy transportation and replacement of equipment without outage the power in less time.
- Possibility of design up to  $I_n=7400\text{A}$  and short circuit level  $I_{cw}=150\text{ kA} / 1\text{sec}$
- Possibility of design up to  $I_{pk}=375\text{A}$  and Impulse voltage level  $U_{imp}=8\text{kV}$
- Cable and Bus duct entry from top or bottom.
- Possibility of design in single front or back to back.
- Ingress of protection maximum in IP54
- Highly resistant galvanized bolt steel frame with vibration and seismic test.
- Possibility of switchgear development from both side of bus bars.
- Possibility to install advanced network equipment on the circuit breakers for remote control.
- Possibility to design for AC (3Pole & 4Pole), DC and automation systems.



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- Possibility of design and equipment arrange from Form1 to Form4b according to the following standards:
  - IEC60439-1, Section 7-7
  - DIN EN 60439-1
  - IEC 61641
- Design and manufacturing based on the following standards:
  - IEC60439-1
  - DIN EN 60439-1
  - IEC 61641
  - VDE 0660 PART 500
  - VDE 0660 PART 500, Supplement 2
- Suitable to use in:
  - BMS (Building Management System)
  - PMS (Power Management System)
  - ESD (Emergency Shut-down)
  - SCADA (Supervisory Control and Data Acquisition System)





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