



Intelligent Power Systems

UL 891 LV Switchboards



- **UL 891 Low Voltage (LV) Deadfront Switchboards** provide protection, metering, switching, control and automation of LV electrical systems in commercial and industrial applications
- Provides connectivity to primary distribution lines, feeders, motors, transformers, generators, filters, capacitor banks through cables and bus duct
- Application scope includes transfer schemes, generator control, generator/utility paralleling, motor control and load management
- Breaker compartmentalization available as individual, grouped or integrated
- Stock Square D I-Line chassis for distribution sections. Other manufacturers available upon request.
- Available breaker types include molded case circuit breaker (MCCB), insulated case circuit breaker (ICCB) and low voltage circuit breakers (LVCB)
- Front, rear or side access available
- 3 cycle bus standard (30 cycle bus available)
- 225A to 6000A ratings
- Indoor Type 1 and Outdoor Type 3R enclosures
- Stainless steel and Galvaneal enclosures available
- Custom paint colors available
- Manufactured per UL requirements and applicable NEMA and ANSI standards
- Provide replacement/upgrade of existing equipment and fitting new gear to existing equipment
- *Vendor neutral; freedom to use best equipment for the application or to meet customer preferences*
- *Design/Build and Custom Switchgear Specialists*
- *Protection, metering, control, automation and integration expertise*

PowerSecure UL-891 Low Voltage Switchboards have the following features:

- Typical application includes MCCBs and ICCBs, with or without trip units
- Depending on selective coordination requirements, LVCBs may be applied on mains, ties and other breaker positions
- Enclosure doors may be used to mount instruments, meters, protective relays, indicators and other secondary control devices and their associated wiring.
- Optional grounded metal or glasstic barriers are available to enclose the primary circuit components (breakers, switches, fuses, bus, instrument transformers, and control power transformers) from the cable connections.

Applicable Standards*UL (Underwriters Laboratory)*

- 50, Enclosures for Electrical Equipment, Non-Environmental Considerations
- 67, Panelboards
- 508, Industrial Control Equipment
- 891, Dead-Front Switchboards
- 489, Molded Case Circuit Breakers and Circuit Breaker Enclosures
- 1066, Low-Voltage AC and DC Power Circuit Breakers Used in Enclosures

ANSI: American National Standards Standard Institute

- C37.13, Low-Voltage AC Power Circuit Breakers Used in Enclosures
- C37.16, Preferred Ratings, Related Requirements, and Application Recommendations for Low-Voltage AC (635 V and below) and DC (3200 V and below) Power Circuit Breakers
- C37.17, Trip Devices for AC and General Purpose DC Low Voltage Power Circuit Breakers
- C37.50, Test Procedures for Low Voltage AC Power Circuit Breakers Used in Enclosures
- C37.100, Definitions for Power Switchgear
- NFPA 70, National Electrical Code

NEMA: National Electrical Manufacturers Association

- AB-1, Molded case Circuit Breakers and Molded Case Switches
- PB-2, Deadfront Distribution Switchboards
- ST-20, Dry-Type Transformers for General Applications