

Low Voltage Switchboards UL 891



Switchboards can be custom designed or utilize a standard configuration to meet specific dimensional and electrical requirements. They can include fully integrated component options from leading manufacturers, including automatic transfer switches, SPD, distribution transformers, and PLC or relay based transfer schemes, Automation, Metering and Monitoring. Circuit breakers and fusible switches can be group or individually mounted. Indoor and outdoor enclosures are available in a wide range of durable color finishes.

Low Voltage Switchboards UL 891

Full Customization and Design Flexibility

Component and Metering
Selection Options

Fully Rated Bus Based on
Density Ratings

Seismic Tested to Worst Case
Response Spectrum

Indoor and Outdoor Applications

UL or cUL Listed; Meets ANSI, IEEE,
and NEMA Standards

Features & Benefits

- Voltage - Up to 600VAC, Up to 250VDC maximum
- Ampacity - 400A to 12,000A maximum bus rating
- Switchboard ratings through 12,000A, 200kA up to 480V, 100kA up to 600V
- Type 1 or 3R enclosures
- Paint ANSI 61 - Standard, other colors available as options
- Front, rear, and side accessibility
- Devices can be individually (vertically) or group (panel horizontally) mounted
- Custom sheet metal and bus flexibility for busway and transformer connections
- Extensive protective device accessories available
- Silver-plated copper bus, or tin-plated aluminum bus, or optional tin plated or bare copper
- 1000A per sq in. fully rated copper bus systems
- 750A per sq in. fully rated aluminum bus systems
- Tested to short circuit rating of 3 cycles (.05sec.) or to immediate trip of tested OCPD and braced to UL configuration standards



Features & Benefits (cont'd)

- Rigid frame construction isolating bus and breaker assemblies from enclosure
- Metering compartments built to applicable Utility standards
- Variety of fully integrated component options available including automatic transfer switches, SPD, distribution transformers, and PLC or relay based transfer schemes, Automation, Metering and Monitoring
- Switchboard fed by cables, cable bus, bus duct, or transformer
- Fixed-mount or draw-out breakers for both mains and feeders
- Group mounted, fix-mounted fusible switch mains and feeders or combination of fixed mounted breakers and fusible switches
- Thermal magnetic, electronic circuit breakers with standard, high kAIC or current limiting capability, 80% or 100% rated
- All commercially available UL Listed options on circuit breakers and fusible switches

Product Specifications

UL 200kA ratings at 480V through 12,000A with suitably rated components (Group mounted circuit breakers or fusible switches are 200kA rating at 240v or 100kA rating at 480v)

UL 100kA at 600V from 2000A to 12,000A ratings with suitably rated components

UL 100kA ratings for commercial multi-metering with suitably rated MCCB

Seismic tested

IEM Difference

UL 100kA at 600V from 2000A to 12,000A ratings with suitably rated components

UL 100kA ratings for commercial multi-metering with suitably rated MCCB

Seismic tested

Fully rated bus is based on density ratings, not UL heat rise tests, resulting in greater efficiency and lower operating temperatures.

All enclosures are designed for specific application with improved dimensional flexibility and finished using state of the art powder coating system providing an indoor finish that exceeds the 1500 hour salt spray testing requirement for outdoor equipment to 3000 hours.

Component and metering selections are based on value engineering for the application and optimized to meet specifications.

Technical Specifications

IEM Switchboards meet or exceed applicable industry standards, including UL891, CSA, NEMA standards PB-2, NEMA 1 and NEMA 3R enclosures. Uses UL489 or UL1066 listed breakers.

IEM Distribution Switchboards meet seismic testing, circuit requirements as outlined by IEEE344 and ICC-ES-AC156.



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