IEM™ Tradition. Technology. Innovation.

IEM Low Voltage Switchboards

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, TVSS, distribution transformers, and PLC or relay based transfer schemes. 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.

Features/Benefits

- Voltage - Up to 600Vac, Up to 250Vdc maximum
- Ampacity - 400A to 12,000A maximum bus rating
- 65 kAIC standard bus bracing (100 or 200kAIC - optional)
- Switchboard ratings through 12,000A, 200kAIC up to 480V, 100kAIC up to 600V
- Type 1 or 3R NEMA enclosures
- Paint ANSI 61 – Standard, other colors available as option
- 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, tin-plated copper bus or tin-plated aluminum bus
- 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 or braced to UL configuration standards
- Rigid frame construction isolating bus and breaker assemblies from enclosure
- Metering compartments built to applicable Utility's standards
- Variety of fully integrated component options available including automatic transfer switches, TVSS, distribution transformers, and PLC or relay based transfer schemes

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 CSA Listed; Meets ANSI, IEEE, and NEMA Standards

Features/Benefits (cont'd)

- Front accessible line connections for main device
- Front accessible load connections for feeder devices
- Switchboard fed by cables, cable bus, bus duct, or transformer
- Thermal-magnetic, electronic fixed mounted circuit breaker mains and feeders, Fix-mounted fusible switch mains and feeders or combination of fixed mounted breakers and fusible switches
- Main and branch devices in single section configurations
- Thermal magnetic, electronic circuit breakers with standard, high kAIC or current limiting capability, 80% or 100% rated
- All commercially available options on circuit breakers and fusible switches

IEM Difference

Fully rated bus is based on density ratings, not UL heat rise tests, resulting in more bus 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.

Recent Developments

UL 200K AIC ratings at 480V through 12,000A with suitably rated components

UL 100K AIC at 600V from 3000A to 12,000A ratings with suitably rated components

UL 100K AIC ratings for commercial metering with suitably rated MCCB

Seismic testing completed – fully qualified to worst case response spectrum

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.

Industrial Electric Mfg.™ (IEM)

Headquartered in Fremont, CA, IEM is the largest independent full-line manufacturer of electrical distribution and power quality equipment in the U.S. For over half a century, IEM has delivered customer-specific solutions to meet the ever changing power requirements of growth industries in North America. At IEM, tradition and technology still drive innovation. An experienced engineering staff and one of the most flexible design and manufacturing systems in the industry set IEM apart from standard product manufacturers.

IEM™

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