

Power-Style® QED-2, Series 2 Low Voltage Switchboards Class 2742

Retain for future use.

Overview

Power-Style® QED-2, Series 2 Low Voltage Switchboards represent the next evolution in switchboards manufactured by Schneider Electric. The Series 2 design provides easier access for performing equipment installation and maintenance procedures.

The first release of the Series 2 design applies only to 24 in. deep switchboards up to 2500 A with:

- Cable feed, full-height, PowerPact® M-, P-, and R-frame circuit breaker mains or Bolt-Loc® fusible switch mains
- Full-height I-Line® or QMB distribution sections

Switchboards with utility compartments or other feed types will continue to be built using Series 1 construction.

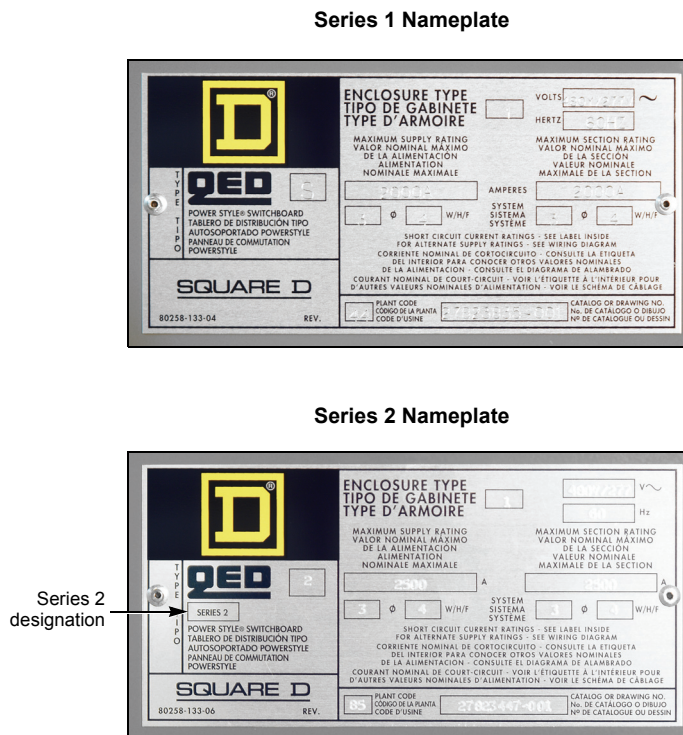
Figure 1: QED-2, Series 2 Switchboard with PowerPact R-Frame Circuit Breaker and I-Line Distribution Section



Identifying Series 2 Switchboards

Series 1 switchboards do not include a series designation on the switchboard rating nameplate (Figure 2). However, Series 2 switchboards can be identified easily by the “Series 2” designation appearing underneath the QED logo on the rating nameplate.

Figure 2: Series 1 and 2 Nameplate Comparison



Features

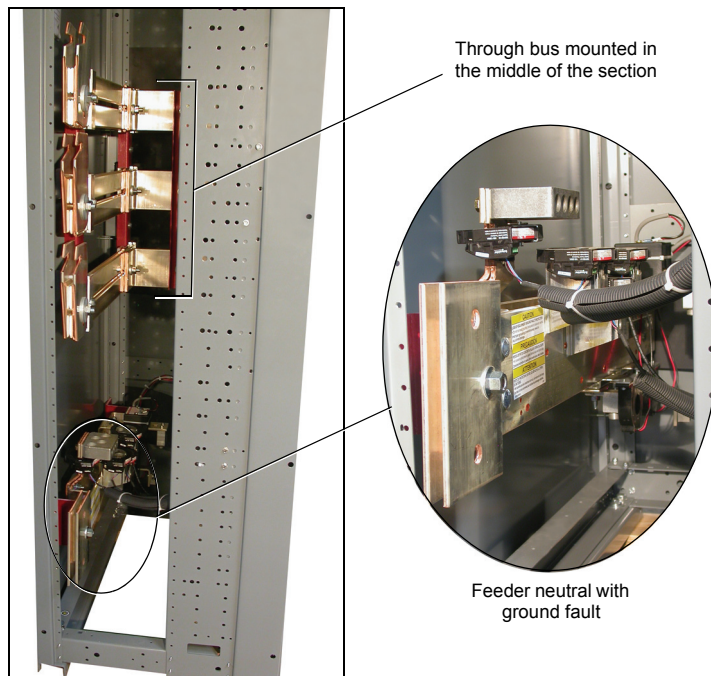
Features of QED-2, Series 2 switchboards include:

- Standardized phase through bus design
- Improved branch neutral and ground bar access
- Enhanced instrument compartment for both individually mounted main and I-Line distribution sections
- New interior designs for I-Line and QMB distribution sections

Standardized Phase Through Bus Design

The Series 2 phase through bus design is standardized as mid-mount construction, allowing ample space for running incoming conductors (Figure 3).

Figure 3: Side View of Series 2 I-Line Distribution Section



Improved Branch Neutral and Ground Bar Access

The neutral through bus has been located remotely from the phase through bus; it is now at the same end as the incoming conductors (Figure 3). The feeder neutral for I-Line and QMB distribution sections has been moved from the gutter. The neutral terminals are now located on the neutral through bus (Figure 3 close-up). This change improves customer access to the gutters for cable routing to feeder devices. The neutral has adequate space for terminals with or without neutral current transformers (CTs).

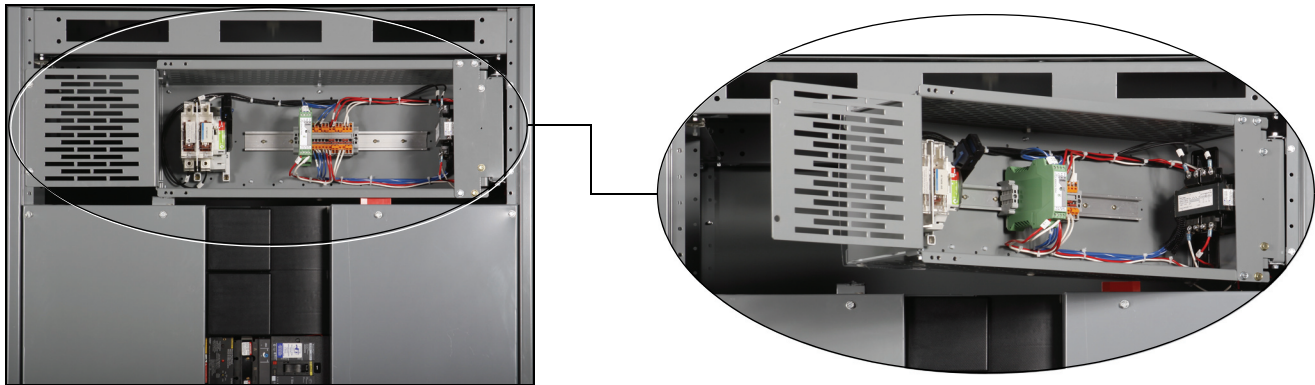
The ground bar has been moved to the front of the switchboard section to improve customer access to the ground terminals. The ground bar will be located at the top or bottom of the section to match the incoming conductor location.

Enhanced Instrument Compartments

Series 2 switchboards feature a redesigned instrument compartment (IC) for individually mounted, main device sections, and a completely new IC for 63 in. high, 36 in. wide, single-row, I-Line distribution sections. These completely enclosed compartments provide improved customer access to serviceable components such as fuses, disconnects, and meters.

The compartments are hinged to allow access to bussing and other components located behind the instrument compartment. The IC in the I-Line distribution section also provides mounting for the trip unit power supply and control power transformer, freeing up space on the bus stack.

Figure 4: Instrument Compartment in an I-Line Distribution Section



Instrument compartments swing open for easy access to components behind compartment.

A surge protective device (SPD) can be mounted in the side of the instrument compartment in an individually mounted main section to make the best use of available space. The SPD disconnect is located under the IC to save space. An ON/OFF mechanism extends up into the compartment for easy access. The SPD can be partially withdrawn from the compartment to simplify module replacement.

An I-Line mountable SPD can be located on either side of the bus stack in Series 2, I-Line distribution sections with double-row interiors.

New Interior Designs for I-Line and QMB Distribution Sections

Distribution sections for QED-2, Series 2 switchboards include two new 63 in. high, single-row, I-Line interiors and one new 63 in. high QMB interior.

The new I-Line distribution sections include 2000 A and 2500 A interiors with unrestricted circuit breaker thermal mounting on the bus stack. The 2500 A interior is a higher rated interior than previously available in 24 in. deep switchboard construction, making it possible to have a shallower footprint.

The interior of the new QMB 2500 A distribution section can accommodate two 1200 A fusible switches in a 24 in. deep footprint.

Additional Information

- Catalog 2742CT1001, *Power-Style QED-2, Series 2 Switchboards* (addendum to catalog 2742CT9501R12/09)
- Instruction Bulletin 80301-042-01, *Instrument Compartments in Power-Style QED-2, Series 2 Switchboards*
- Instruction Bulletin 80044-553-01, *Neutral Bus Splice Connections for QED-2, Series 2 Switchboards*
- Instruction Bulletin 80043-055-09, *Power-Style QED-2 Switchboards*

Schneider Electric USA, Inc.
1010 Airpark Center Drive
Nashville, TN 37217 USA
1-888-SquareD (1-888-778-2733)
www.schneider-electric.us

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