Mini Power-Zone

An integrated package power supply

Schneider Electric's unique Mini Power-Zone offering is a solution designed to provide customers the value of saving on installation time, cost, and floor space. It is a space saving substitute for a separate, conduit connected main breaker, epoxy resin encapsulated transformer, secondary main breaker, and distribution panelboard, with all components integrated into a single, wall-mounted substation. It provides an answer to requirements for portable, compact power supplies for small loads with offers for both, single- or three-phase power solutions.

Typical applications: areas with limited space, assembly lines, construction sites, portable offices, small shopping centers, guard shacks/other shacks, emergency or temporary power supply, test areas, areas where considerable water or moisture is present

Designed for ease of installation:

The unique, two-part construction provides easier, more flexible installation and maintenance. The transformer and panelboard can be mounted one at a time to accommodate varying space or handling circumstances, allowing the transformer to be removed or replaced without disturbing the panelboard section and associated wiring. Additionally, the panelboard can be removed and wired first when required since the transformer is mounted on top of the panelboard while the primary and secondary leads are reconnected to the main breaker.

Key components and features

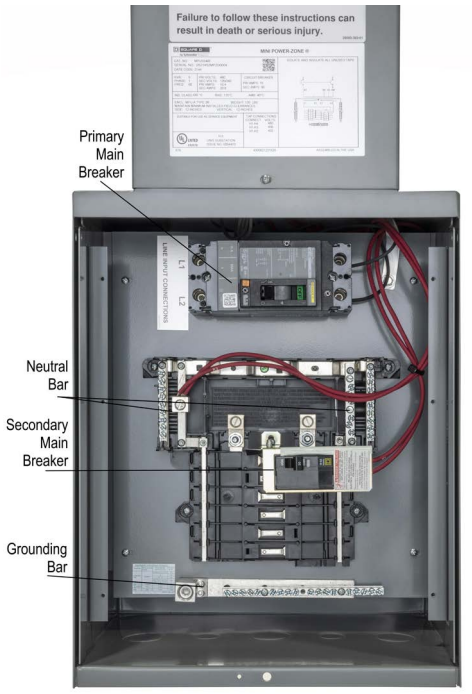
The Mini Power-Zone provides an integrated package for single- or three-phase power solutions and houses the following in a single, wall-mounted substation:

- Conduit connected main breaker
- Epoxy resin encapsulated transformer
- Secondary main breaker
- Distribution panelboard
- 600 V and below, 3-30 kVA

Mini Power-Zone components and general features

The Mini Power-Zone package power supply integrates a primary main circuit breaker, sealed epoxy-resin encapsulated step-down transformer, secondary main circuit breaker, and distribution panelboard in a single, wall-mounted substation with configurations available in both single- and three-phase power solutions. Housed in a NEMA 3R enclosure, it is UL Listed for both indoor and outdoor applications and is also rated for service entrance use. Both the transformer and panelboard steel enclosures are protected by an electrostatically applied powder coating for added corrosion resistance against wet, dirty, or dusty environments. Units are also available by special order and with a stainless steel option.

Key components and features (cont.)



Circuit breaker features

The primary and secondary main circuit breakers come factory installed and are housed in a weather-resistant steel enclosure. All circuit breakers are National Electrical Code (NEC) compliant and are selected to coordinate with the transformer's magnetizing inrush current. In addition, shunt trip capability for the primary main circuit breaker is available by special order where local fire codes may require tripping provisions on service equipment.

Panelboard features

The Mini Power-Zone panelboard section uses copper bus and Square D branded Quik-Open (QO) style circuit breakers. There are two panelboard configuration options available:

- QO load center interior that accepts QO plug-on circuit breakers only
- NQ panelboard interior that accepts either QO plug-on or QOB bolt-on circuit breakers.

Transformer features

The Mini Power-Zone houses a Square D branded sealed epoxy-resin encapsulated transformer that provides maximum protection against moisture, dust, and corrosive elements. A 185°C insulation system allows for a maximum temperature rise of 115°C. All insulating materials in the transformers are to be in accordance with current ANSI C89.2 and NEMA ST20 standards.

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