

Low-voltage Switchgear

Type WL Low-voltage Metal-Enclosed Switchgear

General

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Siemens Type WL low-voltage metal-enclosed switchgear is designed, constructed and tested to provide superior power distribution, power monitoring and control. At the heart of the Type WL low-voltage switchgear is the World Class Siemens WL breaker.

Siemens Type WL low-voltage switchgear can be utilized in the following applications:

- **Industrial**
 - Semiconductor
 - Petrochemical
 - Automotive
 - Biotech
 - Pharmaceutical
- **Institutional**
 - Water treatment
 - Airports
 - Universities
 - Medical facilities
 - Correctional facilities
- **Critical power**
 - Data Processing
 - Continuous industrial process
 - Hospitals
- **Utility and co-generation**
- **Commercial**
 - Large office buildings
 - Distribution centers
 - Large warehouses

Product Scope:

- Equipment ratings
 - 635VAC Maximum
 - 3 Phase 3 Wire,
 - 3 Phase 4 Wire
 - 50/60 Hz
 - 6000 amp maximum horizontal bus
 - 6000 amp maximum vertical bus
- Enclosure options
 - NEMA 1 Indoor
 - NEMA 3R Outdoor Walk-In
 - NEMA 3R Outdoor Non Walk-in

Siemens WL breakers can be manually or electrically operated, fused or unfused and are available in the following rating designations – N, S, H, L, M and F. Refer to tables on Page 13 for interrupt and withstand ratings for each rating designation.



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Industry Standards

Type WL switchgear with power circuit breakers are designed, tested and constructed in accordance with:

- UL 1558 — Metal-Enclosed Low-voltage Power Circuit Breaker Switchgear
- ANSI C37.20.1 — Metal-Enclosed Low-voltage Power Circuit Breaker Switchgear
- ANSI C37.50 — Test Procedure for Low-voltage AC Power Circuit Breakers Used in Enclosures
- ANSI C37.51 — Conformance Testing of Metal-Enclosed Low-voltage AC Power Circuit Breaker Switchgear Assemblies
- NEMA SG5 - Power Switchgear Assemblies
- Applicable requirements of the National Electric Code (NEC)

WL drawout circuit breakers are in accordance with:

- UL 1066 — Low-voltage AC and DC Power Circuit Breakers Used in Enclosures
- ANSI C37.13 — Low-voltage AC Power Circuit Breakers Used in Enclosures
- ANSI C37.16 — Preferred Ratings, Related Requirements, and Application for Low-voltage Power Circuit Breakers and AC Power Circuit Protectors

- ANSI C37.17 — Trip Devices for AC and General Purpose DC Low-voltage Power Circuit Breakers
- NEMA SG3 - Low-voltage Power Circuit Breakers

Features and modifications required by NEC are incorporated when the assembly is designated as "Service Equipment."

UL Listing

Underwriters' Laboratories listing mark (UL) is supplied for each vertical section provided all devices within a vertical section are UL Listed or UL Recognized and suitable for the intended use. All circuit breaker drawout elements are UL Listed.

Optional CSA compliance with cUL labeling is available.

Arc Resistant

Optional Type WL arc resistant low-voltage switchgear is available and is UL listed to ANSI/IEEE C37.20.7. Type 2B arc resistant accessibility rating with maximum internal arcing short-circuit current rating of 100kA @508V and 85kA @ 635V.

Seismic Qualification

Seismic qualification to all major seismic construction standards (IBC, UBC, CBC, SBC, BOCA and IEEE 693) is available.