

**SIEMENS**

**ELECTRICAL PRODUCTS**

# Interactive Overview



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PART 1: LOW VOLTAGE

# Making Sure Power Makes Its Way

Safe, constant and intelligent low-voltage power distribution and electrical installation technology

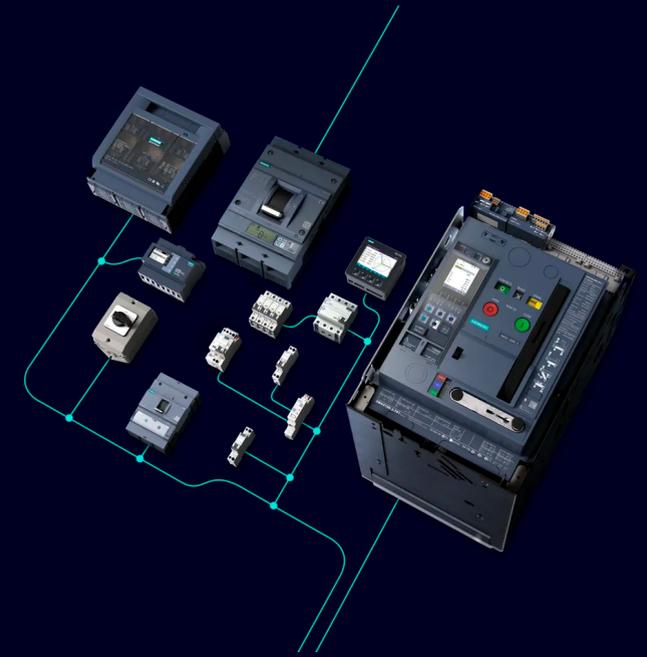


## Low voltage power distribution

Whether in industry, infrastructure, or buildings: Each environment is dependent on a reliable power supply. Which is why products and systems featuring maximum safety and optimum efficiency are in demand. This comprehensive portfolio for low-voltage power distribution and electrical installation technology covers every requirement – from switchgear to the socket.

## Electrical power distribution in transition

Automated buildings and industrial processes, more stringent requirements regarding energy efficiency, and changed load conditions have a significant impact on electrical power distribution. Siemens products can be seamlessly integrated into comprehensive energy efficiency concepts as well as in residential, commercial, and industrial applications.



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## Find your Siemens Canada authorized distributor

Use the link below to:

- Find commercial/construction products
- Find an industrial products distributor
- Find a process instrumentation distributor

[Find your Siemens Canada authorized distributor](#)



## The Drummondville factory

A centre for production and R&D since 1984, the Siemens low voltage products manufacturing plant in Drummondville, Quebec, is the production hub for Loadcentres, Meter Centres, Panelboards, Switchboards, and Industrial Safety Switches.

This ISO-certified Canadian plant is at the forefront of innovation and technology, with over 250 employees working towards safely building and testing our Canadian-made product lines.

[More about Siemens in Canada](#)



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## NEW! COMPAS Go Canada

COMPAS Go is the next evolutionary step in Siemens Quotations, making it easier for Authorized Partners to do business with Siemens Canada. Proposals, submittals, drawings, lead times, marketing materials and more are now readily available, making it easier to organize quotes and access the information you need in one convenient tool.

Require access? In-depth training? Contact your local Siemens Distributor Sales Representative or Account Sales Representative.

[Login to COMPAS Go Canada](#)



## Customer Interaction Centre

Contact us with inquiries on power distribution!

Business hours: Monday to Friday: 8:00am–5:00pm ET

Toll-free telephone support: 1-888-303-3353

Email us: [cic.ca@siemens.com](mailto:cic.ca@siemens.com)

[Customer Interaction Centre](#)



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**PART 2: CATALOGUES**

# Power Product Catalogue

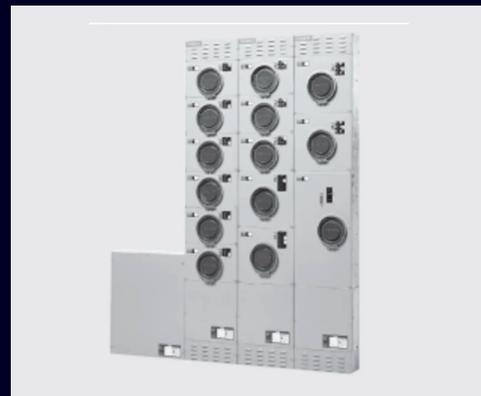
The 2024 Power Product Catalogue is available as single interactive sections. It includes the latest, best-in-class power products from our residential, commercial, and industrial products. Download it today to see just how quickly you can select products and retrieve information. Use the separate sections below for faster opening times when viewing online.



## Section 1 - Loadcentres

Made in Canada, for Canada: Faster delivery and better service. Buying Canadian supports Canadian manufacturing!

[Download Section 1](#)



## Section 2 - Meter Centres

Siemens multi-family metering includes an assortment of module types that can be configured to meet a wide range of residential, commercial or industrial group metering applications.

[Download Section 2](#)



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# Power Product Catalogue



## Section 3 - Safety Switches

Siemens safety switches are offered in a wide variety of choices for both industrial and commercial applications.

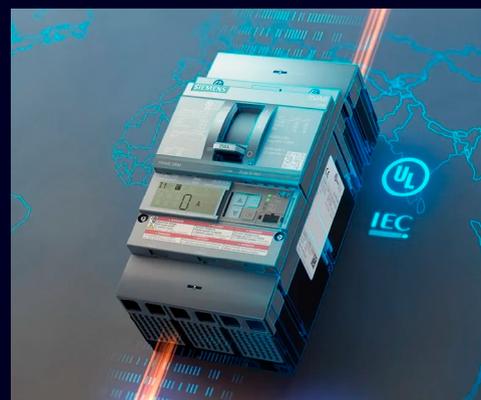
[Download Section 3](#)



## Section 4 - Disconnect Switches

Siemens Load Break Switches are listed as manual motor controllers and are suitable as motor disconnects.

[Download Section 4](#)



## Section 5 - Molded Case Circuit Breakers

Siemens offers one of the most comprehensive lines of circuit breakers in Canada. Engineered to react in the most demanding conditions, our extensive product portfolio is designed for industrial, commercial, and residential applications.

[Download Section 5](#)



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## Section 6 - WL Power Circuit Breakers

Industrial and Commercial energy consumers are continuously looking for practical and efficient methods of measuring their energy usage while ensuring any downtime is minimized. At Siemens we understand those needs and have developed products and solutions to help energy consumers achieve their goals.

[Download Section 6](#)



## Section 7 - Dry Type Transformers

While being a completely static electrical device, Siemens dry-type low voltage distribution transformers are versatile to benefit your application.

[Download Section 7](#)



## Section 8 - Power Monitoring

Energy Management and Control Systems from Siemens are complete enterprise solutions that help you manage the energy costs and availability of your business. With our advanced meters and controls, you can be sure to use only the energy you need, when you need it.

[Download Section 8](#)



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# Power Product Catalogue



## Section 9 - Surge Protection Devices

In today's electronic world, home and business electrical systems just aren't complete unless they incorporate surge protection.

[Download Section 9](#)



## Section 10 - Panelboards

This generation of panelboards from Siemens offers the high level of engineering and innovation you've come to expect from the leader in power distribution technology.

[Download Section 10](#)



## Section 11 - Switchboards

Every aspect of Siemens switchboard design has been aimed at improving layout convenience, reducing installation costs and minimizing the impact and cost of system changes. Regardless of your application or requirements, one of Siemens switchboard products will meet your needs.

[Download Section 11](#)



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## Section 12 - Switchgear

Siemens Type WL low-voltage metalenclosed switchgear is designed, constructed and tested to provide superior power distribution, power monitoring and control.

[Download Section 12](#)



## Section 13 - Busway Systems

Siemens Sentron Busway is engineered to ensure the safe and efficient distribution of power in industrial, commercial and institutional environments.

[Download Section 13](#)



## Section 14 - Motor Control Centres

Motor control centres (MCC) have come a long way since they were introduced in 1937 as a way to save floor space by placing several starters in a single cabinet.

[Download Section 14](#)



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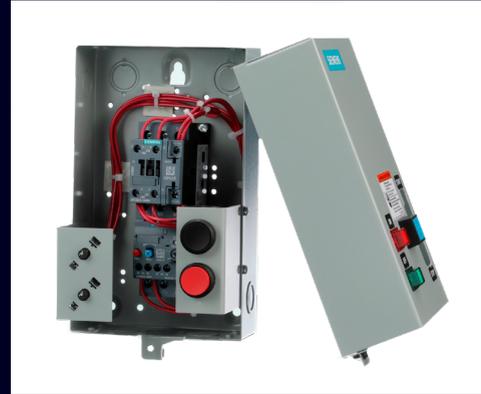
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# Power Product Catalogue



## Section 15 - Low Voltage Motor Starters

Siemens offers the most comprehensive range of low-voltage motors worldwide.

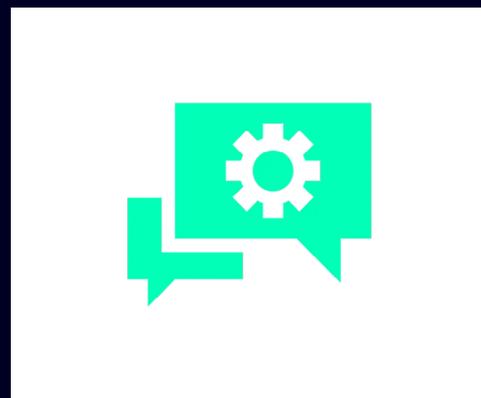
[Download Section 15](#)



## Section 16 - Electric Vehicle Charging Products

Together with visionary customers, we are making eMobility a reality – today and in the future. Electromobility is the norm.

[Download Section 16](#)



## Section 17 - Technical

General technical information of the Electrical Products Portfolio.

[Download Section 17](#)



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**PART 3: MADE IN CANADA**

# Made and Assembled in Canada, for Canada

High-quality electrical solutions for a brighter future. Unveil the essence of innovation with Siemens' electrical products proudly made and assembled in Canada. Each product exemplifies our dedication to empowering industries and communities with sustainable solutions that provide a path towards a more innovative and efficient future.



[Download the brochure](#)



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## The Drummondville factory

Siemens Canada is investing approximately \$14 million in a multi-phased modernization of its 10,400 square metre manufacturing facility located in Drummondville, Quebec, with the aim to optimize overall efficiency and capacity of the plant and position it for future growth.

Plans for the facility, which has been making electrical products for the Canadian market for more than 50 years, include expanded production of made-to-order product lines in response to market demands.

Switchboard production, as an example, will see a 50 per cent volume increase. The modernization project will position the Drummondville factory and its approximately 350 employees for continued success and could result in an increase of up to 15 per cent in jobs by 2027.

[More about Siemens in Canada](#)

## Proudly engineered, assembled and manufactured in Canada

Focus on the high standards of engineering and quality that come with Canadian-made products, emphasizing expertise and innovation.

### Products made and assembled in Canada:

- ID safety switches and accessories
- Loadcenters and accessories
- Meter centres and accessories
- P2 panel interiors\*
- Panelboard trims\*
- Panelboard tubs\*
- Panelboards accessories\*
- Panelboards\*
- Switchboards\*
- Power panels and switchboard accessories\*

\*Assembled in Canada



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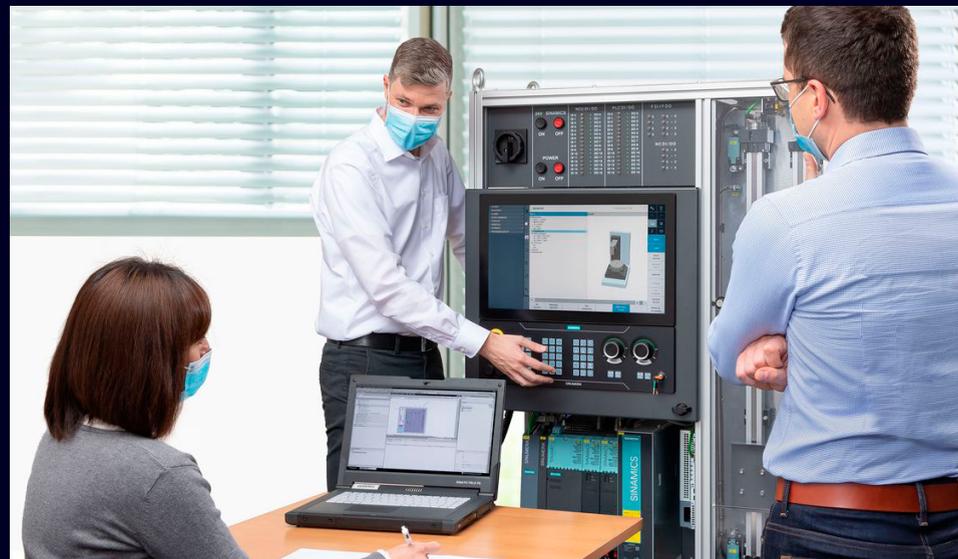
#### PART 4: TRAINING

# The time for learning is now

Today's demands on our knowledge are every bit as diverse and dynamic as our profession itself. We keep learning more and longer – for our work, for our career, and for ourselves. Advancing digitalization entails new topics, and is also changing the way we absorb and process knowledge. Siemens Canada offers the right source of knowledge here, which we can use anytime in just the way we need it.

Do you need assistance, or have questions about our e-training or in-person courses? Our experts will be glad to help.

[Contact us](#)



## In-person training: PowerUp University

Siemens Canada offers a comprehensive range of in-person distributor training courses on shelf, configured, and engineered products. Our courses are flexible and will help staff understand product features, ordering logistics, and identifying potential sales opportunities.

[Contact us to PowerUp](#)



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# Comprehensive web-based training for low voltage products

## Power product podcasts

See below for the library of presentations developed by our team of Canadian Product Experts.

These short presentations (approximately 15 minutes each) have been developed by our team of Canadian Product Experts and will tune or train you and your team on a variety of Siemens low voltage products.

This list contains links to presentation content that focuses on Siemens' low voltage solutions. They range from short feature and benefit driven content to more in depth content focusing on residential and commercial product applications.

- [Safety switches](#)
- [Sentron molded case circuit breakers](#)
- [G Type molded case circuit breakers](#)
- [QR Type molded case circuit breakers](#)
- [FirstSurge](#)
- [Integrated Power Systems \(IPS\) switchboards](#)

## quickSTEP (Siemens Technical Education Program)

quickSTEP online courses are an offering of **no-charge web-based and downloadable PDF courses** intended to help you learn about Siemens products and related technologies. This self-study curriculum includes courses on electricity, controls, and power distribution products.

The quickSTEP courses are great as a refresher for educators, or those in factory-support roles, and new hires.

A minimum of 70% on final exam is required to generate completion certificate and courses can be taken as many times as required.

### Courses offered:

- [Basics of Electricity](#)
- [Basics of Panelboards](#)
- [Basics of Loadcentres](#)
- [Basics of Surge Protection](#)
- [Basics of AFCI Circuit Breakers](#)
- [Basics of Circuit Breakers](#)
- [Basics of Safety Switches](#)
- [Basics of Switchboards](#)



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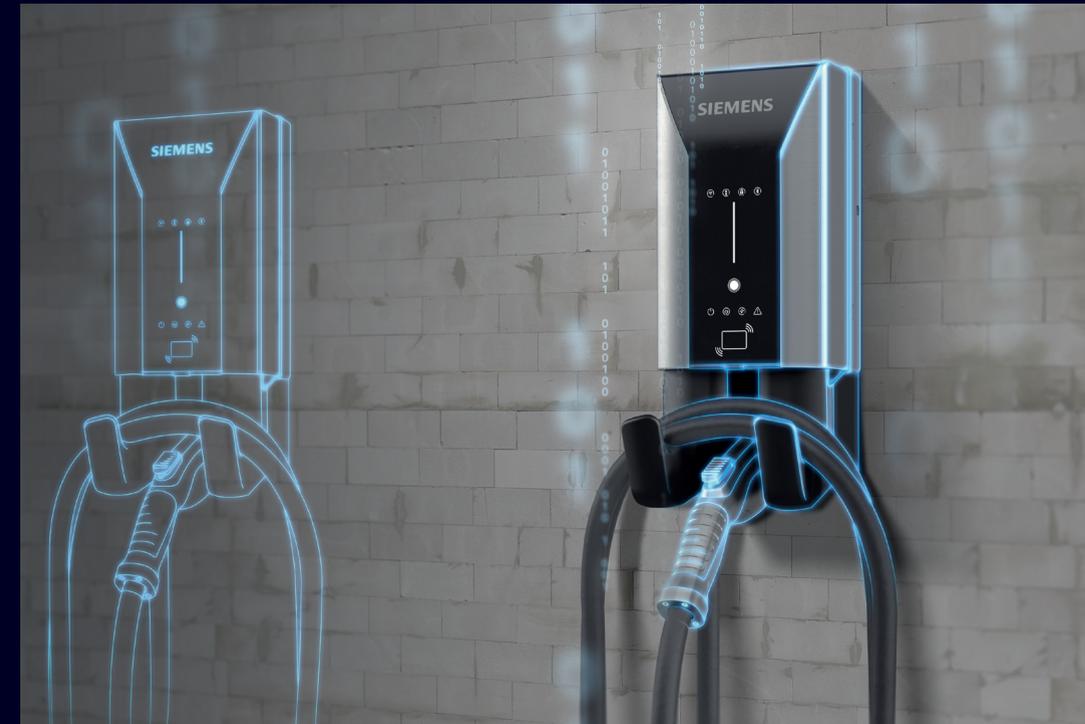
PART 5: PRODUCT OFFERINGS

# Residential products

## VersiCharge™ AC Series Electric Vehicle Chargers

Energizing the evolution of e-mobility

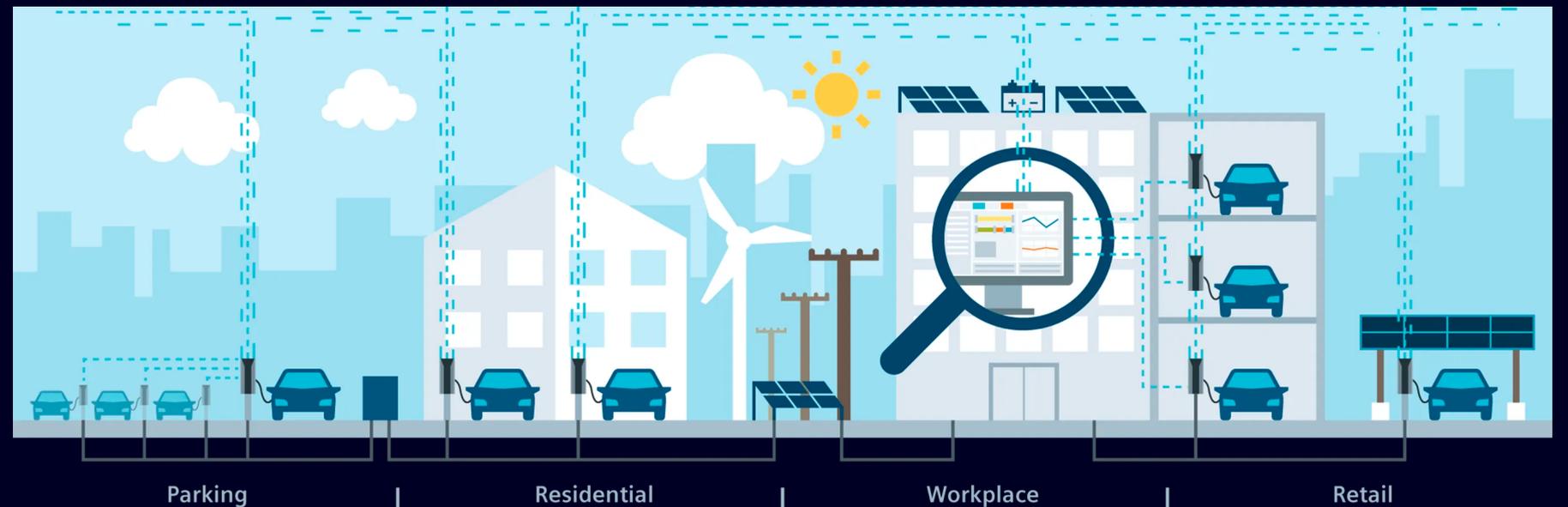
The next generation of the award-winning VersiCharge AC electric vehicle chargers is now available! The VersiCharge AC series, in its 3rd generation, is the result of continuous development and improvement of EV chargers for nearly ten years. This state-of-the-art product matches the needs and expectations of today's growing demand for fast, safe and efficient eMobility solutions.



**Come charge on with Siemens VersiCharge!**

Siemens VersiCharge AC electric vehicle charger series is perfect for residential and commercial applications.

[Watch the video](#)



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VersiCharge AC chargers provide numerous communication interfaces and can be connected to various backend systems. Siemens commercial AC chargers can perform billing, restricted access, and load management functions when combined with Siemens network software. VersiCharge AC chargers can directly interact with building management systems such as Siemens Desigo. Through its parent-child configuration the chargers are scalable, while at the same time reduce the investment and operational cost. Compatibility with all common EVs and applicable charging standards, ease of use, and comfort functions, such as delayed and planned charging, ensure a high degree of customer convenience.

## Benefits and features



### Intuitive design

- Smart interface
- Easy usability
- Mobile app for iPhone and Android



### Smart building integration

- Combination with Siemens Desigo and third-party systems
- Modbus TCP and RTU interfaces
- Smart load management and monitoring



### Flexibility

- Modular and extendable site configurations
- Various communication possibilities
- Wall- or post-mounted



### Robust and reliable

- Indoor outdoor capable (IP56)
- Secure billing
- Integrated safety features



### State-of-the art and future-proof

- Interoperability & upgradeability
- Open payment options
- Charges all standard EV models



### Integrity

- Cost efficient
- 3rd generation VersiCharge AC charger
- Trusted by Siemens expertise



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## VersiCharge models

### Residential Wi-Fi chargers

- Wi-Fi and ethernet
- Single phase: 208 V / 240 V AC, 60 Hz
- 40 A or 48 A maximum current
- J1772 plug with 20-ft cable
- Wall- or post-mounting
- Indoor and outdoor applications, NEMA 4
- Silver metallic (Pantone 10077), black holster

### Commercial Wi-Fi/ethernet chargers

- RFID identification
- Wi-Fi and ethernet
- Single phase: 208 V / 240 V AC, 60 Hz
- 40 A or 48 A maximum current
- J1772 plug with 20-ft cable
- Wall- or post-mounting
- Indoor and outdoor applications, NEMA 4
- Silver metallic (Pantone 10077), black holster

### Commercial cellular gateway chargers

- Cellular gateway
- RFID identification
- Wi-Fi and ethernet
- Single phase: 208 V / 240 V AC, 60 Hz
- 40 A or 48 A maximum current
- J1772 plug with 20-ft cable
- Wall- or post-mounting
- Indoor and outdoor applications, NEMA 4
- Silver metallic (Pantone 10077), black holster



[Download 48A Post Repair Manual](#)

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## Loadcentres made for your needs

Siemens Canada offers one of the highest quality, broadest, and most flexible loadcentre lines in the industry. Our loadcentres are designed for the Canadian market with a comprehensive selection of breakers and accessories that complement them. From our patented interior design to our wide range of options, these Loadcentres are the right match for your needs.

[Find authorized distributors](#)

### Product information

A loadcentre is a panel which distributes, protects, and controls lighting and power circuits in residential and light commercial applications.

Each Siemens loadcentre consists of three basic components: the enclosure, the interior, and the trim. The enclosure is used to contain the circuit breakers which mount on the interiors. The trim seals the enclosure, offering protection to personnel from the environment.

### Benefits and features

From single family homes and townhouses to high-rise condominiums and small office buildings, our loadcentres provide time saving and cost-effective solutions thanks to their simplified design.

#### Renovation Interior Kit

- Intended for the residential renovation market where removing the entire enclosure of a load center can be impractical or costly.
- Fits existing 8 or 12 space enclosures and comes with an oversized cover.

[Renovation Interior Kit: Installation Tips](#)



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## Main Lug Loadcentres



### EQL Loadcentre

Small buildings and miscellaneous applications

- Standard main lugs only distribution panel
- Single phase
- 2/4 through 40/80 circuits
- 60 to 200 Amp Ratings
- Indoor (Type 1) or outdoor weatherproof (Type 3R) enclosure
- White or grey enclosure



### SNC Loadcentre

Condos, apartment buildings, or office buildings

- Main lug loadcentre
- Single phase
- 24 through 60 circuits
- 125 to 200 Amp ratings
- Stocked complete with doors
- White or grey enclosure



### EQ3 Loadcentre

Condos, Apartment Buildings, or Office Buildings

- Main lug loadcentre (also available as main breaker)
- Single phase
- 24 or 40 circuits
- 225 Amp rating
- Stocked complete with doors



### EQ4 Loadcentre

Condos, apartment buildings, or office buildings

- Main lug loadcentre (also available as main breaker)
- Three phase
- 12 through 42 circuits
- 100 to 225 Amp ratings
- Stocked complete with doors



### Retrofit Loadcentre

- Easy installation
- 8ccts or 12ccts configuration expandable up to 24ccts with twin breakers
- Oversized cover ensures a neat finished installation



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## Main Breaker Loadcentres



### SEQ Loadcentre

Single family and small building applications

- Main circuit breaker loadcentre
- Single phase
- 12/24 through 60/120 circuits
- 60 to 200 Amp ratings
- Indoor (Type 1) enclosure or outdoor weatherproof (Type 3R) enclosure
- White or grey enclosure



### EQ3 Loadcentre

Condos, apartment buildings, or office buildings

- Main breaker loadcentre (also available as main lug)
- Single phase
- 24 or 32 circuits
- 125 Amp rating
- Stocked complete with doors
- Service entrance loadcentre options are available



### EQ4 Loadcentre

Condos, apartment buildings, or office buildings

- Main breaker loadcentre (also available as main lug)
- Three phase
- 24 or 42 circuits
- 100 to 200 Amp ratings
- Stocked complete with doors
- Service entrance loadcentre options are available



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## Generator Panels



### EQG Loadcentre

Single family and small building applications

- Single phase
- 2 pole with 8/16 through 36/72 circuits
- 3 pole with 6/12 through 34/68 circuits
- 30 to 100 Amp Ratings
- Stocked complete with doors
- Allows permanent connections to critical loads
- Factory ready for switched and non-switched neutral applications

## SPA & Mini Panels



### SPA Panel

Outdoor applications

- Main circuit breaker loadcentre
- Single phase
- 4/8 circuits
- 125 Amp rating
- Outdoor enclosure (Type 3R)



### Mini Panel

Commercial and service entrance use

- Circuit breaker enclosure
- 1 or 2 pole
- Single phase
- 15 to 125 Amp ratings
- Indoor (Type 1) enclosure



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## Circuit Breakers



### Arc and Ground Fault Circuit Breakers

Dual function arc and ground fault circuit breakers are available

#### Arc Fault Circuit Breaker

- Interrupting rating of 10 kA, 22 kA, and 65 kA
- 1 and 2 pole
- 15 and 20 Amp

#### Ground Fault Circuit Breaker

- Interrupting rating of 10kA, 22kA, and 65kA
- 1 and 2 pole
- 15 to 60 Amps
- 5 and 30mA sensitivity
- White or grey enclosure



### QP Plug-in Breakers

Interrupting rating of 10kA and 22kA

#### Full Module

- 1 pole 15-70 Amp
- 2 pole 15-200 Amp
- 3 pole 15-100 Amp

#### Half Module

- Twin: Two single pole, 15-15 to 40-15 Amp
- Quad: Two single-pole and one 2-pole inner breaker, 15-15 to 15-40 Amps



### BQ Bolt-on Breakers

Interrupting rating of 10kA and 22kA

#### Full Module

- 1 pole 15-70 Amp
- 2 pole 15-125 Amp
- 3 pole 15-100 Amp



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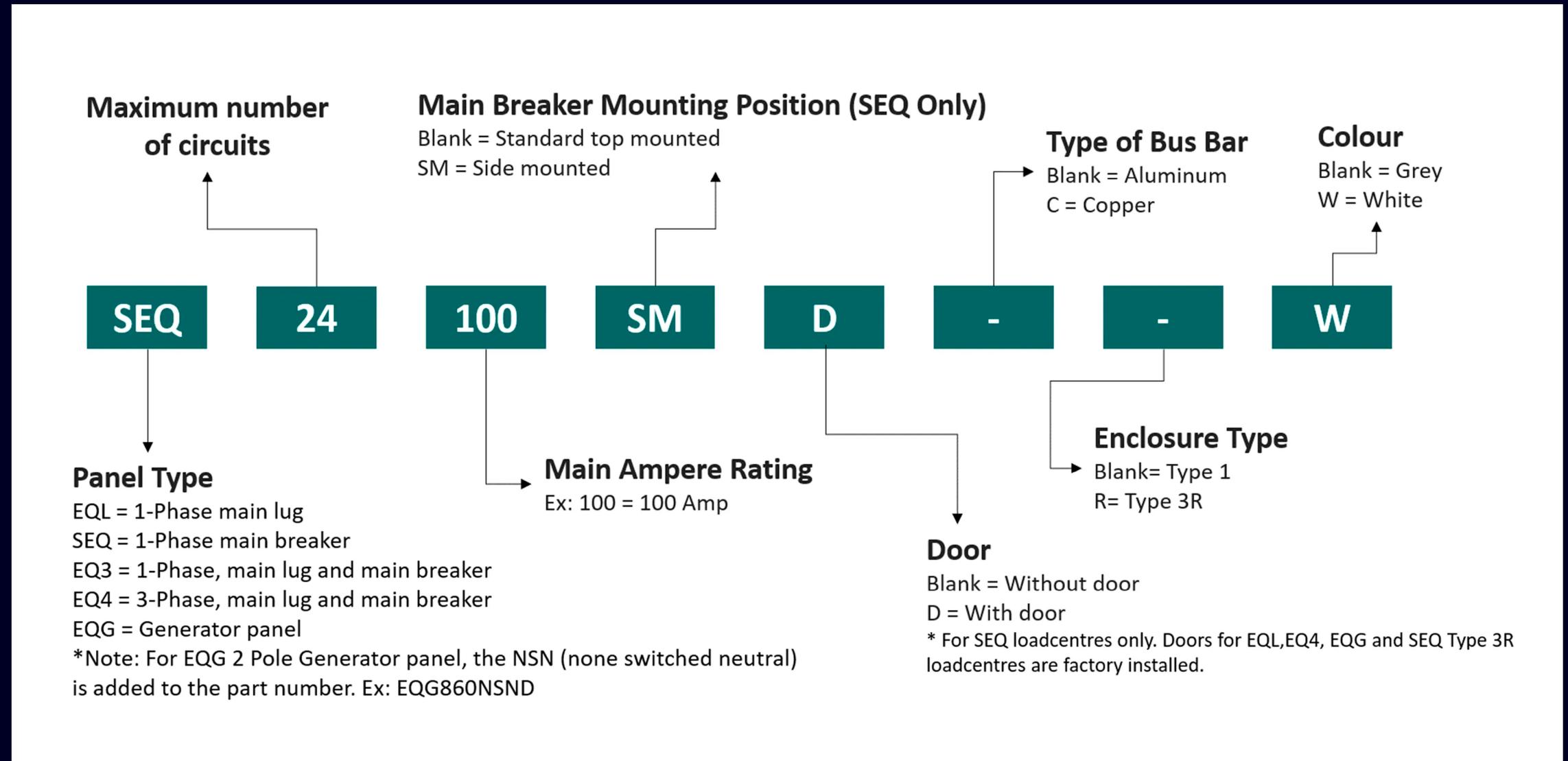
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## Find your loadcentre



[Find authorized distributors](#)

[Download Power Product Catalogue: Section 1](#)



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## Door Kits and Trims

Door kits and trims can be provided for different loadcentres in many sizes.

**Door Kit  
and Trim**



**Door Kit**



**Branch Breaker  
Cover**



## Accessories and Replacement Parts

With the comprehensive selection of replacement parts and accessories, Siemens loadcentres and breakers are the smart choice for the conscientious customer. Handle ties, handle blocking devices, padlocking devices, and filler plates are available. Lug kits are offered in a variety of wire range sizes.

**Breaker Tie  
Handle**



**Lock**



**Sliding Latch**



## Surge Protection Devices

### FirstSurge

Our FirstSurge will let you know when there is something wrong or when they are worn out. Based upon thunderstorm frequency, geographic location, and home size, we developed a surge exposure map correlating with FirstSurge current capacities know.



### FSPHONE

The FSPHONE protects against electrical power surges that can enter through the main telephone connection and is equipped with a fail short device to permanently ground the telephone line in the event of a power cross.



### FSCATV

Siemens FSCATV shields coaxial connected electronics in residential and light commercial applications against electrical transient damage, including lightning, from entering through the main cable connection.



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## Downloads

[Loadcentre Flyer](#)

[60 Circuit Loadcentre Flyer](#)

[EQG 2 Pole Generator Panel Flyer](#)

[SNC Series 1-Phase Loadcentre Flyer](#)

[SNC vs EQL Loadcentre Comparison Guide](#)

[Retrofit Loadcentre Interior Brochure](#)

[Renovation Interior Kit Instruction Sheet](#)

[Retrofit Loadcentre Interior RE1224ML1125K Data sheet](#)

[Retrofit Loadcentre Interior RE1224ML1125J Data sheet](#)

[Retrofit Loadcentre Interior RE0816ML1100K Diagram Worksheet](#)

[Retrofit Loadcentre Interior RE0816ML1100J Diagram Worksheet](#)

[Retrofit Loadcentre Interior RE1224ML1125K Cutsheet](#)

[Retrofit Loadcentre Interior RE1224ML1125J Cutsheet](#)

[Retrofit Loadcentre Interior RE0816ML1100K Cutsheet](#)

[Retrofit Loadcentre Interior RE0816ML1100J Cutsheet](#)



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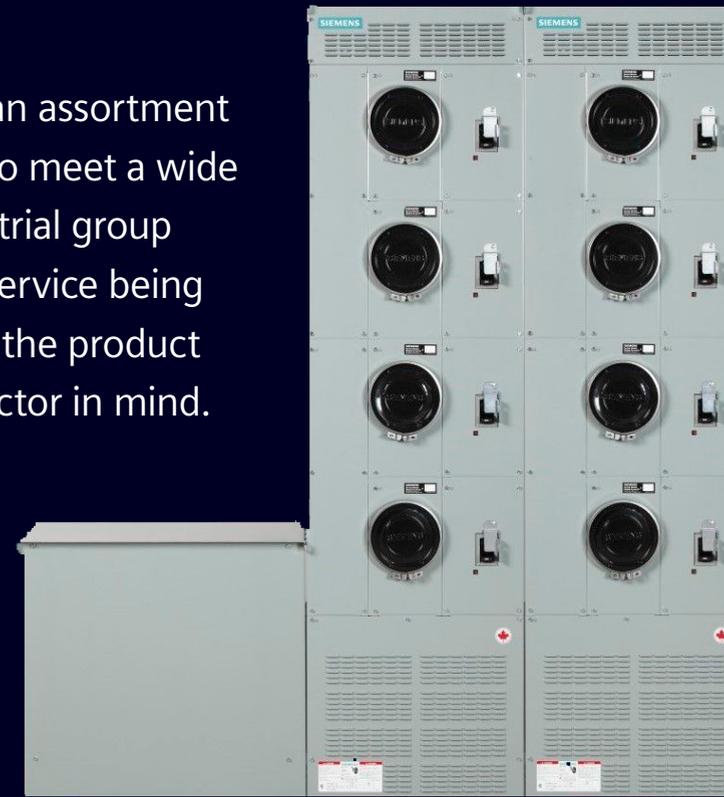
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## Meter Centres

Siemens multi-family metering includes an assortment of module types that can be configured to meet a wide range of residential, commercial or industrial group metering applications. With quality and service being the keystones of Siemens meter centres, the product line is designed and built with the contractor in mind.

[Find authorized distributors](#)



## Meter Stacks

All meter stacks are designed for “cold metering” in which individual subservice breakers are connected on the line side of the meter sockets thereby protecting the meter and all electrical equipment installed subsequent to it. Main bus connector kits are available to allow the connection of two meter stacks.

- 240V meter stacks can be offered with or without meter sockets.
- 600V meter centers are offered with four 7-Jawed meter sockets rated at 200A each.



240V

600V



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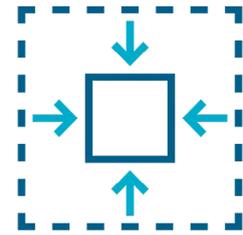
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## 240V Modular Meter Centres

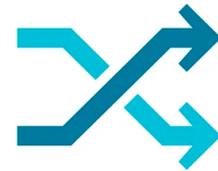
- 120/240V 1PH 3W or 120/208V 3PH 4W
- Horizontal bus bar rated at 600A or 1200A
- Vertical bus rated at 800A per section
- Meter stacks are offered along with many sub-service module options
- Standard and feed-through tap boxes available
- Suitable for left- and right-hand-side entry
- Provisioned for 2 or 3 pole circuit breakers

**Power Product Catalogue: 240V Meter Centre Extract**



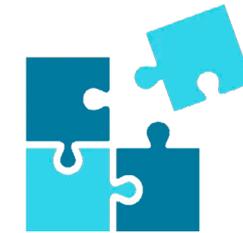
### Direct Tap Feature

When using Siemens' direct tap Main Lug Feed Kit for services at 600A, no tap box is required. This allows for the connection of main incoming cables directly to the Meter Stack main bus and eliminates the need for a sub service tap box saving considerable installation room.



### Flexibility

Siemens service entrance equipment can be top or bottom fed for single connection or feed through applications. A user-friendly combination of knockouts is factory installed at the top to minimize installation time.



### Modular Design

Each individual slide-in module design allows for fast installation and provides flexibility for future needs. If the branch requirement changes, the module can be interchanged without changing the complete stack.



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## 600V Modular Meter Centres

- 600Y/347V 3PH 4W
- Horizontal bus bar rated for 1200A
- Vertical bus rated at 800A per section
- Each stack includes neutral and ground provisions
- Sub-service modules contain 7 jaws and are rated at 200A
- Standard and feed-through tap boxes available
- Suitable for left and right hand side entry
- Close coupled option with Siemens SMP switchboard
- Provisioned for 3 pole circuit breakers

### Application Guide



#### Reliable Design

- Robust and compact enclosure standard with dripshield
- Large wireway separated from meter area for easier connections
- Trouble-free access to horizontal bars and easy access to cabling area



#### Sturdy Bus Connection

- Simple and sturdy bussing connections providing durable support for each sub-service breaker
- Breaker and bus bar protection allowing screws recuperation
- Reliable and simple busbar to busbar connections



#### Simple Installation

- Easy access to horizontal bar connections and bottom plate simplifying the installation process.
- Load cables can enter the meter centre enclosure at the top and/or the bottom
- Removable bottom plate to facilitate drilling holes for cable entry



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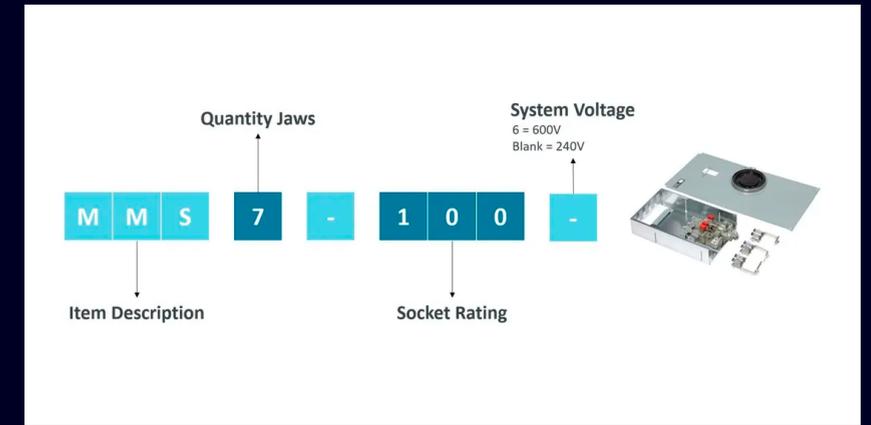
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## Meter Sockets

Meter socket jaws consist of tin plated copper with steel spring reinforced clips for reliable contact pressure. The positive alignment of jaws and stabs is assured by bus straps which are bolted in place for 240V meter centres and factory installed for 600V meter centres.

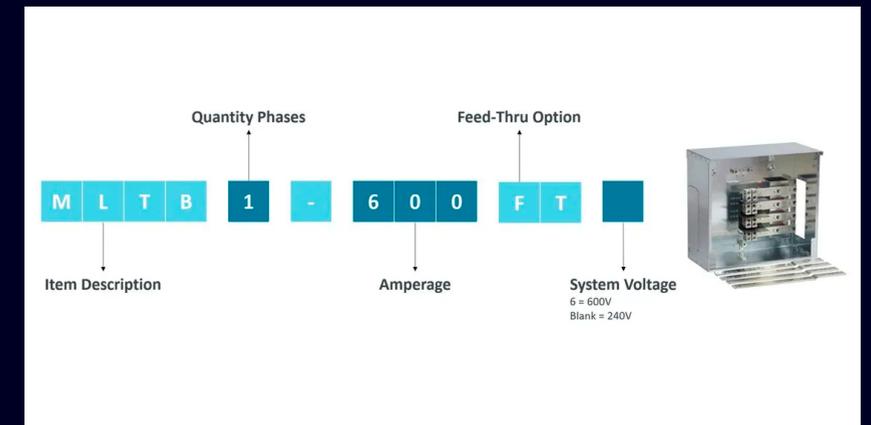
- 240V meter stacks can fit sockets with 4 to 7 jaws and rated up to 200A each
- 600V meter stacks can fit up to four 7 jawed sockets rated at 200A each



## Tap Boxes

A Tap Box mounts directly next to the Meter Stack and is required to accommodate the incoming main service cable, unless a Main Lug Feed Kit is used for a 240V meter centre at 600A.

Standard and feed-through tap boxes are available at 600A or 1200A with connectors included. They can be offered with punched or unpunched aluminum or fiber entry plates.



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## Circuit Breakers

Compact, high performance type plug-in or bolt-on circuit breakers can be selected to address site requirements. Interrupting ratings of up to 100kA combine thermal and magnetic trip elements that feature isolated pole construction with a common trip bar for multiple pole devices, silver alloy contacts, and high pressure straight-in load connectors.



### QP & EQ Plug-in Breakers

#### QP Breakers

- KAIC rating of 10, 22, or 65 kA
- 2 Pole 60-125A
- 3 Pole 60-110A

#### EQ Breakers

- KAIC rating of 10 or 22 kA
- 2 Pole 150-200A



### BQ Bolt-on Breakers

#### BQ Breakers

- KAIC rating of 10, 22, or 65kA
- 2 Pole 60-125A
- 3 Pole 60-100A



### QR Bolt-on Breakers

#### QR Breakers

- KAIC rating of 10, 22, or 65kA
- 2 Pole 125-200A
- 3 Pole 125-200A



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Each 600V meter stack has provision for four 3-pole 200A max bolt-on type FXD6/HFXD6 circuit breakers. Non-interchangeable trip unit breakers must be used for this application. Generous gutter space allows for wiring for the top or the bottom of the meter module.



### FXD/HFXD6 Breakers

- 3 Pole 70-200A
- 22kA or 25kA maximum interrupting rating
- Non-interchangeable trip only
- Mounting hardware provided with meter stack

## Find Solutions

### Safety Switches

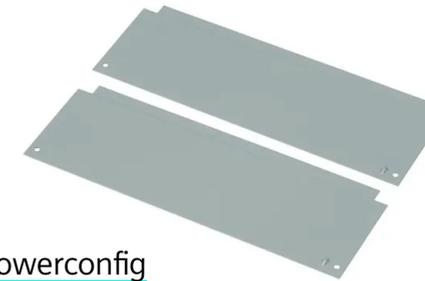
For our 240V meter centers, fusible switches can be placed directly next to a metering stack with a Standard Tap Box or a Main Lug Feed Kit. Easy to mount general and heavy duty safety switches are available for each application.



## Accessories

Filler plates, lug kits, and mounting rails are available for our meter centers. We also offer a variety of replacement parts including jaw front cover plates and breaker mounting kits for our breakers.

### Filler Plates



[More about powerconfig](#)

### Lug Kit



[powerconfig – Getting Started web feature](#)

### Connection Adaptor Kit



[More about power distribution in the TIA Portal](#)

### Branch Breaker Cover



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## Downloads

### Flyers

[600V Meter Centres Flyer](#)

[600V Meter Centres App Guide](#)

### Power Product Catalogue

[Section 2 - Meter Centres](#)

### Installation Instructions

[240V Meter Centre Installation Instructions](#)

[600V Meter Centre Installation Instructions](#)

[SFLK-2006 Instruction Sheet](#)



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## Siemens EV Charger Make-Ready Solution

Siemens EV Make-Ready solution is a pre-packaged offering that provides our customer with a turnkey solution for their EV charging needs. Siemens offers a wide spectrum of solutions for EV supply equipment needs.

### Make-Ready App Features

- Siemens L2 EV chargers or any EV chargers
- Power distribution: switchboards, panelboards, safety switches and loadcentres
- Distribution transformers
- EV charger mounting post and VersiCharge XL
- Installation and commissioning
- Load management

**Installation locations:** please select the best installation option from the following for your installation



Work place



Residential



Commercial parking lot



Fleet charger



Condominium



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# Power distribution

## Panelboards

Siemens panelboards offer the high level of engineering you've come to expect from the leader in power distribution technology. Featuring the industry's most flexible designs, our product line offers strength and flexibility with the research and innovation found among Siemens fusible switches and circuit breakers at its heart.

[Find authorized distributors](#)

### The Complete Product Line: Manufactured in Canada

The Siemens family of panelboard products offers flexibility, strength, and ease of installation. These environmentally-friendly designs simplify wiring and reduce material requirements, making them less costly than competitive products.

The product line includes the innovative "P Series" line of lighting panels that offers flexibility and increased capacity. It also includes the S5 and F2 power panels which fulfill the most demanding specifications.

[Power Product Catalogue Section: Panelboards](#)



### Downloads

[Section 10 - Panelboards](#)

[Section 5 - Molded Case Circuit Breakers](#)



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## PANELBOARDS AND COMPONENTS

### P Series Lighting Panels

A stepped approach to power distribution: this generation of panelboards from Siemens offers the high level of engineering and innovation you've come to expect from the leader in power distribution technology. Engineered specifically to provide maximum flexibility, these designs simplify wiring and reduce material requirements making them easier to install and less costly than competitive products.

[Find authorized distributors](#)

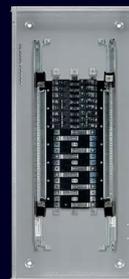
#### Components

P Series lighting panel features include Fas-Latch trim, which is popular among installers; the jacking screw system, that permits adjustments even after wiring has been installed; our exclusive split neutral, and much more.



#### Trim

- Semi flush lock
- Hidden hinges & mounting hardware for additional safety
- Front interface provides support during installation



#### Interior

- The P1 and P3 panel models include a split neutral bar to make wiring easier
- The P2 panel includes a stacked neutral bar
- A variety of circuit protection devices are offered



#### Tub

- Can be mounted with either end up



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## Next Gen P1 Lighting Panels

Featuring the industry's most adaptable designs, the Next Gen P1 panel virtually eliminates common errors, such as feed direction, and main lug versus main breaker. Increasing distribution is simplified by the ability to add feed-thru lugs.

- Maximum voltage of 600Y/347V
- System options include 1PH 2W, 1PH 3W, 3PH 3W, and 3PH 4W
- 125A-400A Main Lugs
- 100A-400A Main Breaker
- 18 through 66 Circuits
- 15-125A Branch Ratings
- Subfeed area that allows for the installation of a subfeed breaker (250A Max.), SPD, or feed-thru lugs
- Available in several enclosure types (general purpose, weatherproof, etc.)
- Can be offered with smaller enclosures and no subfeed option for flexibility
- Aluminum or Copper Bus Material
- Available as unassembled and factory assembled



## P2 Lighting Panels

Flexibility is the hallmark of the P2 panel. This panel offers a wide array of factory assembled options to meet almost all lighting panel applications. With this design, the ability to mix breaker frames in a unit space of up to 250A will also meet many distribution panel requirements in a much smaller package.

- Maximum voltage of 600VAC and 250VDC
- System options include 1PH 2W, 1PH 3W, 3PH 3W, and 3PH 4W
- 125A-600A Main Lugs Amperage
- 100A-600A Main Breaker Amperage
- 18 through 90 Circuits
- 15-250A Branch Ratings
- Aluminum or Copper Bus Material
- Available as unassembled and factory assembled



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## P3 Lighting Panels

The P3 Panel is an innovative and smaller footprint distribution panel made to fit many applications that require more (or larger) branch devices than the lighting panel class can offer. This panel provides a wide array of factory-assembled options and can mix breaker frames in a unit space that is up to 250A.



- Maximum Voltage of 600VAC and 250VDC
- System options include 1PH 2W, 1PH 3W, 3PH 3W, and 3PH 4W
- 400A-800A Main Lugs
- 400A-600A Main Breaker
- 18 through 90 Circuits
- 15-250A Branch Ratings
- 400A Max Subfeed Breaker
- Factory assembled

## Accessories

Lug kits and breaker mounting kits for many different applications and purposes can be offered for our panelboards. Many replacement parts and accessories can also be offered including bonding kits, insulated ground buses, and filler plates.

**Lug Kit**



**Breaker Mounting Kit**



**Filler Plates**



**Branch Breaker Cover**



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## Circuit Breakers



### 3VA Circuit Breakers

Siemens 3VA molded case circuit breakers offer safe, efficient and variable application options for low voltage power distribution whether in industrial applications, infrastructure or buildings while complying with global standards.

#### 3VA Molded Case Circuit Breakers

- P1 panels accept 3VA subfeed breakers rated up to 250A
- P2 panels accept 3VA branch breakers rated up to 250A
- P3 panels accept 3VA branch breakers rated up to 250A, and subfeed breakers rated up to 400A



### General Application Circuit Breakers

Siemens panelboard mounting and general application circuit breakers are thermal-magnetic breakers with valuable features for demanding markets. Their compact size saves space within the P Series Panelboards.

**More about General Application  
Circuit Breakers**



### Sentron Molded Case Circuit Breakers

Siemens Sentron™ series circuit breakers have a long history of excellent performance in both commercial and industrial applications. Features include field installable accessories and series connected short circuit ratings.

**More about Sentron  
Circuit Breakers**



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## Additional Features

### Power Monitoring

Siemens power monitors combine the best of new technologies and proven practices. Monitor critical loads, power quality, and demand via the web directly from the meters. These systems from Siemens are complete enterprise solutions that help you manage the energy costs and availability of your business.

PAC Meters



9410 Meters



SEM3 Meters



### SEM3 Embedded Micro Metering Module

The Siemens Embedded Micro Metering Module (SEM3) is a modular metering solution for energy monitoring, data analysis, and sub billing applications. The flexible design allows for low, medium, and high density metering requirements to be met efficiently and economically using only a few standardized components.

SEM3 Controllers



Current Transformers (CT)



Meter Rack



SEM3 Meters



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## Downloads

### Brochures

[Next Gen P1 Panels Brochure](#)

[Next Gen P1 Panels Counter mat](#)

### Power Product Catalogue

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## PANELBOARDS AND COMPONENTS

### Power Panels

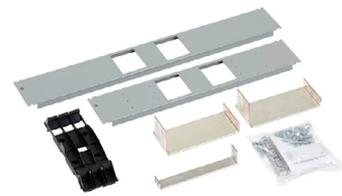
Made in Canada, for Canada: Meet the flexible and rugged distribution power panels that are customizable for every application. The extensive set of parts and additional features that are offered allow you to build the perfect solutions for your needs. From having the ability to mix and match devices of different sizes and ratings to choosing from a wide range of fuse types, the options for our p...

[Find authorized distributors](#)

### Accessories

Field-installable connecting strap kits and filler plates can be offered for a wide range of breakers and fusible switches to meet any customized solutions.

**Breaker Connecting Strap Kit**



**Switch Connecting Strap Kit**



**Filler Plate**



**Branch Breaker Cover**



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## S5 Power Panels (Breaker Type)

Lighting, appliance, and distribution applications

S5 Power Panels are powerful distribution power panels that allow for the use of all Siemens circuit breakers as branch and main devices. These panels are custom made based on customer specifications and requirements.



- 600VAC Max. with 1PH 3W, 3PH 3W, or 3PH 4W system options & 250VDC 2W options are also available
- Short Circuit Rating up to 200kA
- 225A-1200A Main Lugs
- 400A-1200A Main Breaker
- 15-1200A Branch Ratings
- 30", 45", or 60" Unit Space
- 60", 75", or 90" Enclosure Height
- Type 1, 2, 3R, or 12 Enclosure
- Split Neutral for Easy Installation
- Bolted Current-Carrying Parts
- Time-reducing wing nuts to secure interior without tools
- Optional Compression Lugs
- Optional 200% Neutral

## Circuit Breakers



### 3VA Circuit Breakers

Siemens 3VA molded case circuit breakers offer safe, efficient and variable application options for low voltage power distribution whether in industrial applications, infrastructure or buildings while complying with global standards.

#### 3VA Molded Case Circuit Breakers

- P1 panels accept 3VA subfeed breakers rated up to 250A
- P2 panels accept 3VA branch breakers rated up to 250A
- P3 panels accept 3VA branch breakers rated up to 250A, and subfeed breakers rated up to 400A



### General Application Circuit Breakers

Siemens panelboard mounting and general application circuit breakers are thermal-magnetic breakers with valuable features for demanding markets. Their compact size saves space within the P Series Panelboards.

[More about General Application Circuit Breakers](#)



### Sentron Molded Case Circuit Breakers

Siemens Sentron™ series circuit breakers have a long history of excellent performance in both commercial and industrial applications. Features include field installable accessories and series connected short circuit ratings.

[More about Sentron Circuit Breakers](#)



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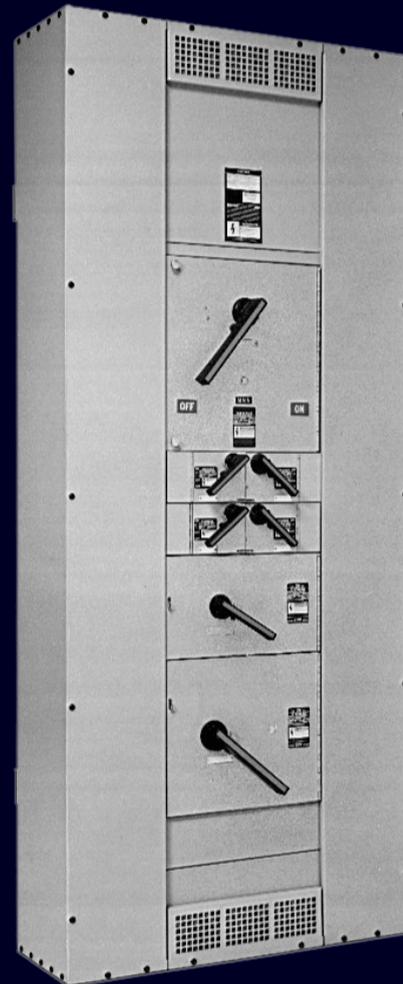
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## F2 Power Panels (Fusible Type)

### Lighting, appliance, and distribution applications

F2 Power Panelboards are factory assembled fusible type distribution panels that accept a wide range of fuse types including Siemens Vacu-Break fusible switches. With a comprehensive set of options, these panels reliably fit your needs and requirements.



- 600VAC Max. with 1PH 3W, 3PH 3W, or 3PH 4W system options & 250VDC 2W options are also available
- Short Circuit Rating up to 200kA
- 225A-1200A Main Lugs
- 200A-600A Main Switches
- 30-1200A Fusible Branch Ratings
- 30", 45", or 60" Unit Space
- 60", 75", or 90" Enclosure Height
- Type 1, 2, 3R, or 12 Enclosure
- Split Neutral for Easy Installation
- Bolted Current-Carrying Parts
- Time-reducing wing nuts to secure interior without tools
- Optional Compression Lugs
- Optional 200% Neutral

## Fusible Disconnects

Siemens exclusive Vacu-Break switches combines the latest in fusible technology with quick make/quick break performance and reliability. Fusible disconnects used for F2 Power Panels include the VB, VK, and HCP switches.



### VB Switches

- 30-600A
- Up to 600 Volts
- J Fuse Provision
- Single or twin mounted



### VK Switches

- 30-200A
- Up to 600 Volts
- J Fuse Provision
- Twin mounted only



### HCP Switches

- 400-1200A ratings offered
- Up to 600 Volts
- J, T, and L Fuse Provisions
- Horizontally mounted for panel applications



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## Additional Features

### Surge Protection Devices

Siemens Integral TPS3 series surge protectors are factory-installed SPDs mounted within our standard distribution equipment. The results are some of the industry's best "installed" Voltage Protection Ratings.



#### S5 and F2 Panels Internally Mounted SPD

Siemens TPS3 05 and L5 surge protective devices are designed for integration within our S5 and F2 panelboards as well as the distribution section within switchboards.



#### External or Wall Mounted SPDs

A wide range of external SPDs with different surge current capacities are offered for the S5 and F2 power panels.

### Power Monitoring

Siemens power monitors combine the best of new technologies and proven practices. Monitor critical loads, power quality, and demand via the web directly from the meters. These systems from Siemens are complete enterprise solutions that help you manage the energy costs and availability of your business.

#### PAC Meters



#### 9410 Meters



#### SEM3 Meters



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## Additional Features

### SEM3 Embedded Micro Metering Module

The Siemens Embedded Micro Metering Module (SEM3) is a modular metering solution for energy monitoring, data analysis, and sub billing applications. The flexible design allows for low, medium, and high density metering requirements to be met efficiently and economically using only a few standardized components.

**SEM3  
Controllers**



**Current  
Transformers  
(CT)**



**Meter Rack**



**SEM3  
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## PANELBOARDS AND COMPONENTS

### Molded Case Circuit Breakers

Siemens offers one of the most comprehensive lines of circuit breakers in Canada. Engineered to react in the most demanding conditions, our extensive product portfolio is designed for industrial, commercial, and residential applications. When it comes to ready availability, easy installation, and quality, we are a manufacturer you can always trust.

[Find authorized distributors](#)



### Our breakers

#### General Application Breakers

Siemens thermal-magnetic circuit breakers offer a solution for space and component size reduction in electrical systems, featuring valuable capabilities for demanding markets and Canadian manufactured products. Their compact design saves space, leading to smaller overall panels. →

#### Sentron Circuit Breakers

Siemens Sentron™ series circuit breakers have a long history of excellent performance in both commercial and industrial applications. Features include field installable accessories, series connected short circuit ratings, and much more. →

### Downloads

#### Power Product Catalogue

[Section 5 - Molded Case Circuit Breakers](#)

[Literature Download Center \(DGN\)](#)



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## General Application Circuit Breakers

Engineered to take on the most demanding conditions day after day.

Siemens panelboard mounted general application circuit breakers are industrial grade thermal-magnetic breakers with valuable features for demanding markets. Available in 240V, 480V, and 600Y/347V versions with trip units ranging from 15A to 250A and interrupting ratings from 10KAIC to 100KAIC. These breakers are compact in size therefore saving space and reducing overall panel size. The 240V panelboard mounting breakers are also available with Arc Fault or Ground Fault sensing capabilities. The 600Y/347V breakers offer field installable internal accessories which allow for last minute changes in the field.

General application molded case circuit breakers product line features:

### 240V breakers

- Suitable for a variety of construction applications
- Trip unit ratings from 15A to 250A
- One inch pole spacing (except QR frame)

### 600Y/347V breakers

- Field installable accessories – shunt trip, auxiliary switch or shunt/aux combinations.
- Meets various mult-national standards, global ratings including CSA, UL, NOM, and IEC.

**QR2 Molded Case Circuit Breakers**



**CQD and BQD Molded Case Circuit Breakers**



**NGB Molded Case Circuit Breakers**



**BL Molded Case Circuit Breakers**



## Downloads

### Flyers and Cutsheets

[Tandem BT Mini Breakers Flyer](#)

[Tandem BT BTH Mini Breakers Datasheet](#)

[QR 250A Frame Circuit Breakers Product Guide](#)

[G Frame Circuit Breakers Product Guide](#)

[Breaker Series Connected Short Circuit Ratings](#)

### Power Product Catalogue

[Section 5 - Molded Case Circuit Breakers](#)



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## Sentron Molded Case Circuit Breakers

**Proven performance in both commercial and industrial market segments.**

Siemens Sentron™ series circuit breakers have a long history of excellent performance in both the commercial and industrial market segments. Siemens Sentron Series circuit breakers are available in nine frame sizes from 125A to 2000A, in thermal-magnetic as well as electronic trip versions and are fully rated for use in North America (CSA, UL, NOM). Features include field installable internal and external accessories, series connected short circuit ratings, and many sizes for motor circuit protectors and molded case switches.

### Features and benefits:

- 15-2000A Ratings (fixed/interchangeable)
- Rated for use across North America (CSA, UL, CE, NOM)
- Field installable internal and external accessories
- Thermal Magnetic & Electronic Trip
- Sentron Sensitrip IV Electronic Trip breakers include Dynamic Arc Flash Sentry (maintenance mode)
- 100% rated frames available
- Many sizes for motor circuit protectors & molded case switches
- Current limiting versions available and certified per CSA without the use of fuses
- May be mounted in a suitable enclosure
- Field installable ground fault relay kits available for equipment protection (ED 125A frame)



## Downloads

### Datasheets

[Sensitrip IV SJD 400A Frame Datasheet](#)

[Sensitrip IV SLD 600A Frame Datasheet](#)

[Sensitrip IV SMD 800A Frame Datasheet](#)

[Sensitrip IV SND 1200A Frame Datasheet](#)

[Sensitrip IV SPD 1600A Frame Datasheet](#)

[Circuit Breakers Series Connected Short Circuit Ratings](#)

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## Switchboards

Siemens Switchboards are designed to offer the modular construction and service flexibility necessary to enhance layout convenience, reduce installation costs, and minimize the impact of system changes. The Switchboard distribution sections can accept a wide range of options including our reliable low voltage circuit breakers, fusible switches, SPD modules, metering devices, and relays.

[Find authorized distributors](#)

## Downloads

### Flyers and Guides

[SMP Switchboards Application Guide](#)

[IPS Switchboards Application Guide](#)

[IPS Switchboards Flyer](#)



*Our switchboards. Made in Canada, for Canada.*



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## cUL SB Switchboards

- Up to 4000 ampere main bus rating
- Up to 600 volts AC
- Full 3VA Breaker family offering
- Type 3R enclosures in addition to Type 1, Type 2, Sprinkler Proof
- Seismic certified (CBC/IBC 2015  $I_p=1.0$  & CBC/IBC 2015  $I_p=1.5$ )
- Efficient use of space with various size options in configuration
- Broad range of features and capabilities allow flexible design
- Modular wireways to allow flexibility with 90°C rated incoming options
- Rear aligned, free standing, front or rear access
- Bus bracing up to 100KAIC
- Tin plated aluminum bus, silver plated copper bus or tin-plated copper bus
- Bussing temperature or density rated
- Dynamic Arc Sentry (DAS) to comply with NEC 240.87 Arc Flash Mitigation



[Application Guide](#)

## FCI Switchboards

- 600 Volts AC Maximum
- Up to 2000A Main and Branch Devices
- Up to 200kA Bus Bracing and Interrupting Rating
- Aluminum (tin plated) or Copper Bus (tin or silver plated)
- Cable, Bus Duct, Hydro Trough, and Transformer Entries
- Type 1 or Type 2 Enclosure with dripshield or sprinkler proof options
- Modular wireways to allow flexibility with 90°C rated incoming options
- Utility compartments designed to local utility standards
- Front and rear aligned
- Front connected and front accessible
- Metering switchboard option available



[Application Guide](#)



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## FCII Switchboards

- 600 Volts AC Maximum
- Main Bus Rated up to 6000A
- Up to 5000A Main Devices
- Up to 1200A Branch Devices and WL feeders up to 2000A
- Aluminum (tin plated) or Copper Bus (tin or silver plated)
- Up to 200kA Bus Bracing and Interrupting Capacity
- Cable, Bus Duct, Hydro Trough, and Transformer Entries
- Type 1 or Type 2 Enclosure with dripshield or sprinkler proof options
- Modular wireways to allow flexibility with 90°C rated incoming options
- Utility compartments designed to local utility standards
- Rear connected and rear accessible
- Can be equipped with automatic transfer schemes and other custom engineered applications



[Application Guide](#)

## IPS Switchboards

- All standard FCI and FCII Switchboard features
- Up to 2000A distribution
- P1 and P2 Lighting Panels
- Up to 300kVA transformers
- Individually mounted breakers (cable in and cable out)
- Aluminum (tin plated) or Copper Bus (tin or silver plated)
- Auxiliary sections for SPDs, power meters, timers, relays, etc.
- Customer equipment, etc.
- Modular wireways to allow flexibility with 90°C rated incoming options
- Utility compartments designed to local utility standards
- Integrates multiple pieces of electrical distribution equipment into a single assembly
- Can be added to an existing switchboard lineup



[Application Guide](#)



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## Molded Case Circuit Breakers

A wide range of breakers are offered for the assembly of your Switchboard. This includes different standard, current limiting, and high interrupting breakers with several trip types and ratings.



### 3VA Molded Case Circuit Breakers

3VA breakers are the newest addition to our molded case circuit breaker family. 3VA breakers offer safe, efficient and variable application options while complying with global standards and certifications.



### General Application Circuit Breakers

General application thermal magnetic breakers are offered with countless options and possibilities. Types BL, BQD, QR, and GB2 breakers can be used in all kA ratings and amperages.

[Learn more](#)



### Sentron Molded Case Circuit Breakers

Siemens Sentron™ series molded case circuit breakers have a long history of excellent performance in both commercial and industrial applications.

[Learn more](#)

## Fusible Disconnects



### VB Switches

- 30-600A
- Up to 600 Volts
- J Fuse Provision
- Metering switches for FCI metering switchboards
- Single or twin mounted

[More about powerconfig](#) →



### VK Switches

- 30-200A
- Up to 600 Volts
- J Fuse Provision
- Twin mounted only



### HCP Switches

- 400-1200A ratings offered
- Up to 600 Volts
- J, T, and L Fuse Provisions
- Horizontally mounted for panel applications

[More about power distribution in the TIA Portal](#) →



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## Surge Protection Devices

Siemens Integral TPS3 series surge protectors are factory-installed SPDs mounted within our standard distribution equipment. Internally mounted SPDs maximize protection by keeping electrical connections as short as possible minimizing impedance losses. The results are some of the industry's best "installed" Voltage Protection Ratings.



### TPS3 05/L5 Internally Mounted SPD

Siemens TPS3 05 and L5 surge protective devices are designed for integration within the distribution section of switchboards.

**Surge current capacity: 100–300kA**



### TPS3 06/L6 Internally Mounted SPD

Siemens TPS3 06 and L6 surge protective devices are designed for integration within our FC1 and FC2 Switchboards.

**Surge current capacity: 100–500kA**



### Externally Mounted SPDs

A wide range of externally mounted SPDs with different properties are available for our Switchboards.

## Power Monitoring

Siemens power monitors combine the best of new technologies and proven practices. Monitor critical loads, power quality, and demand via the web directly from the meters. These systems from Siemens are complete enterprise solutions that help you manage the energy costs and availability of your business.

### PAC Meters



### 9410 Meters



### 9810 Meters



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## SEM3 Embedded Micro Metering Module

The Siemens Embedded Micro Metering Module (SEM3) is a modular metering solution for energy monitoring, data analysis, and sub billing applications. The flexible design allows for low, medium, and high density metering requirements to be met efficiently and economically using only a few standardized components. The system can be configured for factory installation in branch circuit monitoring application. This option can lower the installation time of the system for the installer while providing a factory warranted solution.

**SEM3 Controllers**



**Current Transformers (CT)**



**Meter Rack**



**SEM3 Meters**



## Accessories

Field-installable connecting strap kits and filler plates can be offered for a wide range of breakers and fusible switches to meet any customized solutions.

**Breaker Connecting Strap Kit**



**Switch Connecting Strap Kit**



**Filler Plate**



**Branch Breaker Cover**



## Downloads

### [Flyers and guides](#)

[SMP Switchboards Application Guide](#)

[IPS Switchboards Application Guide](#)

[IPS Switchboards Flyer](#)

[90°C Rated Wireway in Switchboards](#)

### [Power Product Catalogue](#)

[Section 11 - Switchboards](#)



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## Low Voltage Switchgear

Superior power distribution with Siemens low voltage switchgear: Siemens low voltage switchgear is designed, tested, and constructed to provide superior power distribution, power monitoring, and control.

Utilized in range of industrial, institutional, commercial, and critical power applications, the switchgear solution is created for your world-class operations.

[Watch video](#)

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### **Downloads**

#### [Flyers](#)

[Russeletric Switchgear Advantages](#)

[Russeletric Power Control Systems](#)

#### [Power Product Catalogue](#)

[Section 12 - Switchgear](#)



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## Sentron Busway Systems

Busway solution for commercial and industrial environments.  
For technical information and specifications, check out our  
Power Product Catalogue.

**Power Product Catalogue Section 13**



### Busway solution for commercial and industrial environments.

Siemens Sentron Busway is engineered to ensure the safe and efficient distribution of power in industrial, commercial and institutional environments worldwide. Thanks to an innovative design, you benefit from labor-saving installation and a flexible, compact bus system that is an ideal fit for most applications.

### Features and benefits:

Bus runs may easily be expanded as application footprints and layouts change. Individual tap off locations may easily be moved to accommodate end user needs. Relative to cable and conduit, that busway can save 20–30% on total installed costs. Additionally, compared to cable and conduit, busway consumes about 75% less space than an equivalent cabled solution.

- **Plating:** Unique tin plating provides excellent conductivity and resists outside
- **Conductors:** Compact construction of the Sentron busway conductors allow for a flexibility of configurations
- **Housing:** Distributed heat away from the conductors and provides an excellent ground path
- **Insulation:** Inline filter process and magnetic separator helps to eliminate contaminants common to fluidized bed systems
- **Ground:** Optional isolated ground is especially useful in applications where a clean ground is needed
- **Joint stack:** Joint stacks feature a single bolt design and a special, torque indicating, double headed break-off boltt relay kits available for equipment protection (ED 125A frame)



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## Sentron bus plugs can be configured for horizontal or vertical applications

- Features include highly visible position indicator, dual stab busway interlocks, dual cover interlocks and bolt-on mounting (possible configurations include corded receptacle, surface mount receptacle, or field wireable)
- Fusible bus plugs are available in 30, 60, 100, 200, 400 and 600 amp ratings
- Circuit breaker bus plugs available in frame sizes from 125 amps to 800 amps with interrupting ratings of standard, high or current limiting
- 3-6 Bus Plugs are available in 3 or 6 circuit power configurations with up to 100 amps per pole

### Fusible SPD bus plugs:

- Utilize thermally protected MOVs specifically designed for safe operation in high fault current or sustained overvoltage conditions
- Indicator lights for each phase provide indication of loss of protection and phase loss protection
- Direct bus, integral design reduces circuit impedance resulting in the lowest possible let-through voltages

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## Downloads

### [Flyers and guides](#)

[Sentron Busway - Selection and Application Guide](#)

[Sentron Bus Plug with SEM3 - Flyer](#)

[Sentron Bus Plug with SEM3 Installation Manual](#)

[Sentron TBNK Installation Instructions](#)



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## Transformers

Siemens Canada offers a full line of one and three-phase, ventilated, dry-type transformers designed to meet the highest industry standards for quality in the commercial, industrial, and OEM markets. Building on years of experience in engineering and design comes a product portfolio that is guaranteed to provide the high-efficiency and reliability that you are looking for.

[Find authorized distributors](#)

## Downloads

### Brochures

[Commercial transformers brochure](#)

[Dry type three phase transformers brochure](#)

## Accessories

Offering a wide range of accessories for both industrial and commercial transformers, we have the additions and options that you need, including:

- Anti-vibration pads
- Wall mounting brackets for different kVAs

[Safety Switches Product Catalogue Section](#) →



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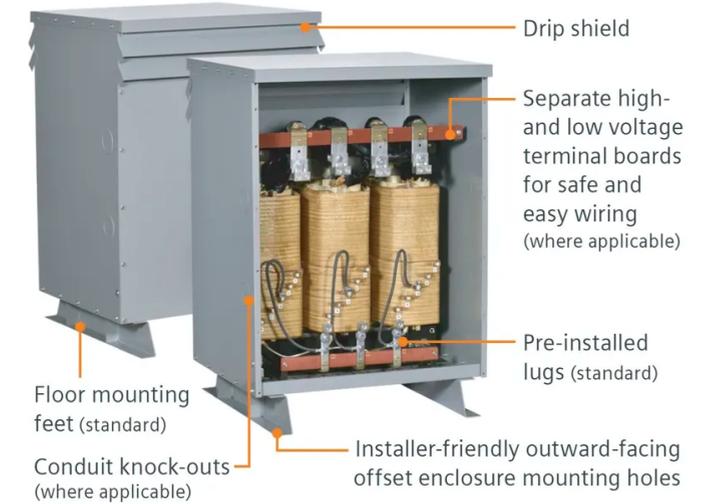
## Commercial transformers

### Standard distribution for commercial applications

- Primary voltage of 480V or 600V
- Secondary voltages of 120/240V 1PH or 208Y/120V 3PH
- 15kVA to 250kVA options for 1PH
- 15kVA to 450kVA options for 3PH
- Aluminium or copper windings
- 150°C temperature rise
- Standard impedance at 60Hz
- 220°C insulation class
- Lugs provided with transformer up to 225kVA for 3PH units and 250kVA for 1PH units
- Standard NEMA 3R enclosure
- Meets NRCAN C802 energy efficiency requirements

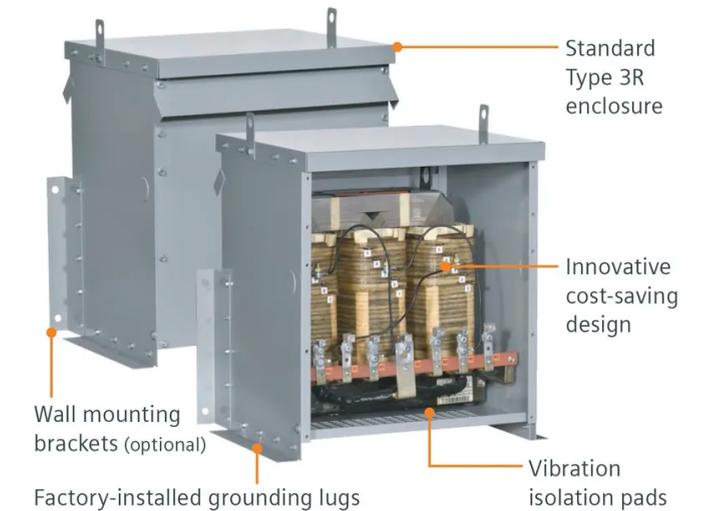
### Floor-mounted commercial transformer

All transformers can be floor-mounted



### Wall-mounted commercial transformer

Wall mounting brackets available for up to 45kVA for units with copper and aluminum windings



[Commercial transformers brochure](#)



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## Industrial transformers

### Lighting, industrial, and commercial applications

- Used for industrial plants, hospitals, utilities, oil & gas, etc.
- Primary voltage of 480V or 600V
- Secondary voltages of 120/240V 1PH, 208Y/120V 3PH, 240Y/139V 3PH, or 480Y/277V 3PH
- Special voltages for domestic or export applications
- 15kVA to 250kVA for 1PH and 15kVA to 500kVA for 3PH
- Aluminum or copper windings
- 150°C temperature rise and 220°C insulation class
- Operating frequencies at 60Hz with other options available
- K-Ratings
- Made or engineered to order with customizable options
- Standard NEMA 3R enclosure
- Meets NRCan C802 energy efficiency requirements
  
- Additional options including 80°C and 115°C temperature rise, electrostatic shield, custom bus bar, and temperature probes
- Termination lugs provided with transformer through 75 kVA
- Space-saving design for easy handling and installation
- Quiet operation and adequate ventilation
- Staggered front loop taps for easy connection
- Epoxy Vacuum Impregnated (EVI)



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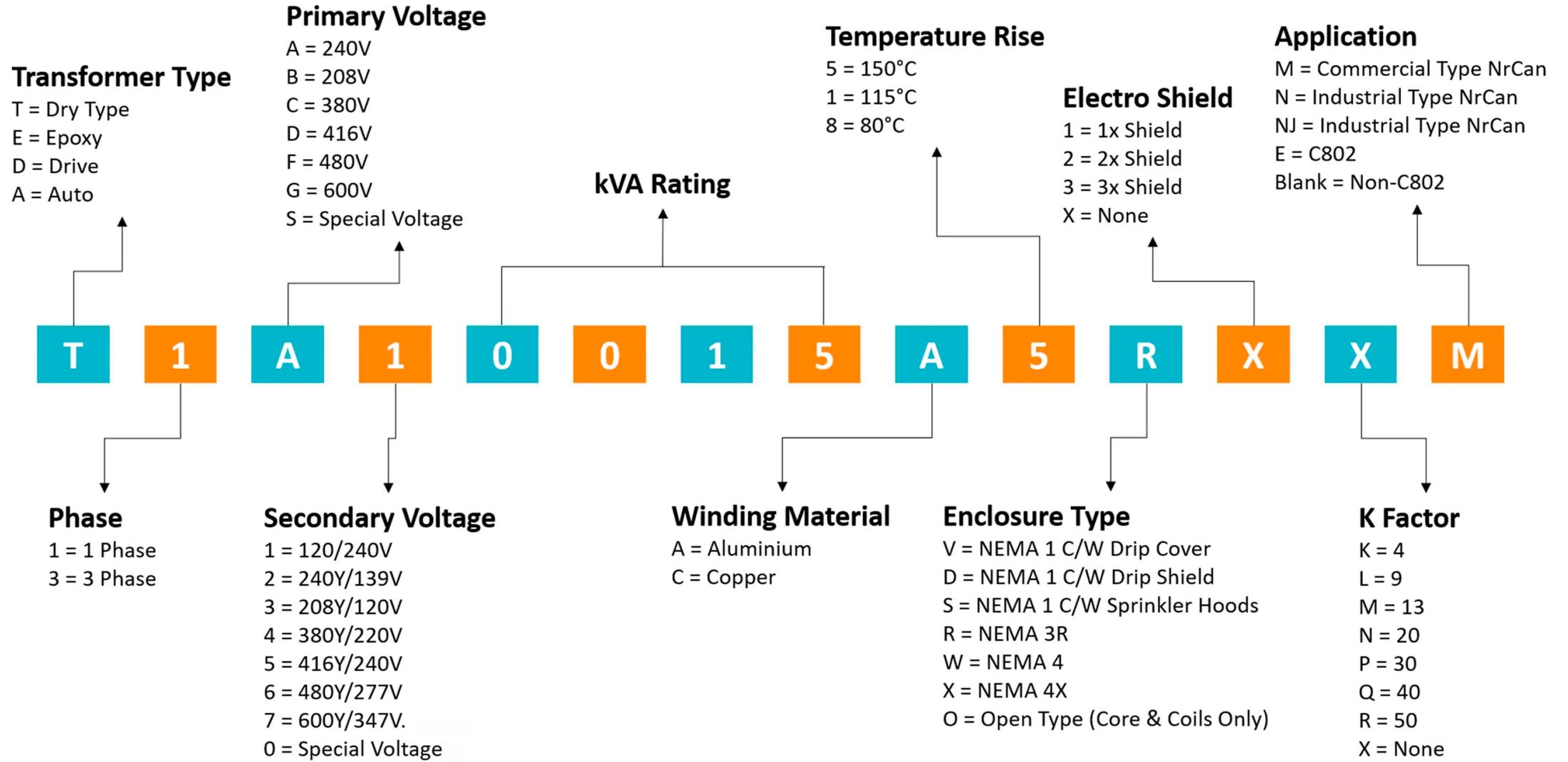
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# Find your transformer



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## Surge Protection Devices

High-quality surge protection solutions from Siemens come in many forms for you and your application. Whether your need is for residential, commercial or industrial, our complete portfolio of surge devices offers a range of protection from 36kA to 1000kA and guarantees the highest form of electrical system safety with a unique cascading option during the installation process.

[Learn more about our solutions](#)



### Complete surge protection

Whatever your application needs, Siemens offers a high-quality surge protection device to protect you and your equipment.

#### Residential SPDs

The FSPD140, FSPD100, FSPD060, and the low-cost option FSPD036 are all part of the Boltshield line of surge protection. Externally-mounted, these devices comply with NEC 2020 and are the best protection for your home and appliances. The QSPD line is the idea option for internal mounting to loadcentres, Siemens offers the 35kA budget-friendly option as well a the 65kA one.

#### Commercial SPDs

Offering both internally- and externally-mounted units, our TPS4 SPD line offers a variety of features to fit your application – the TPS4-03, -09, -11, -12, -13 and -15 can all be externally-mounted to panelboards, switchboards and swtichgear, while the TPS4-01, -05 and -06 are internally-mounted.

### Downloads

[Power Product Catalogue](#)

[Section 9 - Surge Protection Devices](#)



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## Residential Surge Protection Devices

Siemens whole-house protection devices prevent damages to your electrical equipment and all sensitive appliances that are susceptible to surge related activity. From circuit breakers combined with surge protection to internally or externally mounted SPDs, Siemens has the complete portfolio to make your house safe.

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## Downloads

### Guides

[FSPD vs FS - Comparison Guide](#)

**QSPD/QSPD  
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**QSA - Breaker  
and Surge**



**FSPD**



**TPS4**



**BoltShield  
QSPD**



**QSA Breaker  
SPD**



**FirstSurge SPD**



**TPS3/TPS4  
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### QSPD/QSPD Base:

The BoltShield QSPD series of surge protection provide the best protection from both externally and internally generated surges and are specifically designed for your residential applications. The QSPD series are economical and easy to install in most panels throughout a building via a unique option of cascading during installation (recommended by IEEE) providing protection for the whole facility.



#### Features and benefits:

- Diagnostic monitoring
- 35 KA surge current protection
- Protected by a 10-year, \$50,000 (QSPD) or 3-year, \$10,000 warranty (QSPD Base)
- Cascading – multiple QSPDs can be stacked for increased protection
- QSPD fits in footprint of Siemens QP breaker with 2 and 3 pole options
- All standard compliance and certifications\*

### QSA – Breaker and Surge:

The Siemens circuit breaker and Surge Protective Device (SPD) offers a highly-effective TVSS integrated with two 1-pole circuit breakers. This device incorporates the robust features of a secondary circuit breaker surge arrester with a lower clamping voltage rating.



#### Features and benefits:

- 2-inch wide plug-on design
- Two 1-pole circuit breakers which offers no loss of loadcenter spaces
- Protected by a 2.5-year, \$20,000 warranty
- Easy to install and perfect for retrofit
- LEDs provide protection status

### FSPD:

FSPD is a line of surge protective devices for residential and commercial solutions. Listed as Type 2 devices, the balanced defense and robustness provide assurance to property owners that their modern homes, buildings and appliances are fully protected.



#### Features and benefits:

- Surge current capacity – the lines offer different surge protector sizes based upon geographic location and thunderstorm activity.
  - FSPD: 36kA, 60kA, 100kA and 140kA
  - FirstSurge: 60kA, 100kA and 140kA
- 3-Staged– when the device wears out, the protection status LEDs extinguish, an audible alarm beeps, and a red service light flashes to warn the property owner.
- Modes of protection – the electrical system's primary paired conductor combinations of L-N, L-G, and N-G are directly surge protected. Exception – the low cost FSPD036 has a reduced mode of protection (L1-N, L2-N).
- Balanced VPR protection – all primary paired conductors are surge protected in a balanced manner, in accordance with UL1449.
- Ground reference monitoring – GRM diagnostics monitor the health of a unit's neutral to ground bond and alert the property owner if the bond becomes loose, preventing a potential safety issue.
- Both lines can achieve UL1449 listed 100kA SCCR - one of the highest ratings for residential surge protection.
- Compatibility – device installs in any loadcenter brand.
- FSPD060, FSPD100, FSPD140 and FS060, FS100, FS140: 10-year product and connected equipment warranty.
- FSPD036: 3-year product and connected equipment warranty.



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### TPS4:

Siemens line of TPS SPDs provide optimal performance through direct bus bar connections or minimal cable connections – making this line one of the industry’s best installed voltage protection ratings (VPRs) and surge current capacities! Both range from 50 to 1000kA. With the wide range of capacities, the TPS product line applies to commercial and residential applications as long as the voltage level matches the installation needs. Purchase a TPS unit to connect to a loadcenter or configure a TPS unit in a factory with switchgear, switchboards, panelboards, MCCs and busway.



#### Features and benefits:

- TPS TranSafe Enabled – Our patented TranSafe fault current protection circuitry provides peace of mind that your electronic loads are protected and that your electrical system will not go down due to SPD fault control operations.
- Integral or Internally Mounted for Optimized Protection – Internal surge protection dramatically reduces installation impedance allowing for superior installed suppressed voltage capabilities.
- SAD/MOV Hybrid Suppression – For mission critical applications needing the absolute best suppressed voltage, our hybrid SAD/MOV suppressors combine tight clamping technology with integrated suppression, delivering the strongest installed protection capabilities available.
- Low Suppressed Voltage Ratings – TPS Family offers some of the lowest UL 1449 listed suppressed voltage ratings available, meaning your electronics will last longer when compared to SPDs with higher ratings.
- Protected by 10-year warranty for SPD replacement.

### BoltShield QSPD:

The new BoltShield QSPD series of surge protection provide the best protection from both externally and internally generated surges and are specifically designed for your residential applications.



#### Features and benefits:

- 65kA per phase surge current rating
- Diagnostic monitoring – green/red visual mechanical flag failure indicators, flashing dual color LED status indicator, and audible alarm with silence switch/button
- Protected by a 10-year, \$50,000 Warranty
- Cascading – multiple QSPDs can be stacked in a single load center for increased modes of protection and surge capacity
- Modes of protection – the electrical system’s primary paired conductor combinations of L-N, L-G, and L-L are directly surge protected
- Small footprint – BoltShield QSPD fits in footprint of Siemens QP breaker with 2 and 3 pole options

#### Standard compliance and certifications:

- UL 1449 4th Edition, cUL, UL 96A compliant, ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, NEC Article 285
- ISO 9001:2014 quality management system, ISO 17025:2007 laboratory certification (UL DAP Program), 100% quality tested prior to shipping



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### QSA Breaker SPD:

The Siemens QSA breaker Surge Protection Device (SPD) offers a highly effective TVSS integrated with two 1-pole circuit breakers. This device incorporates the robust features of a secondary circuit breaker surge arrester with a lower clamping voltage rating.



#### Features and benefits:

- 40kA per phase surge current rating
- 2-inch wide plug-on design
- Two 1-pole circuits breakers which offers no loss of loadcenter spaces
- Protected by a 2.5-year, \$20,000 warranty
- Easy to install and perfect for retrofit
- LEDs provide protection status

#### Mechanical functionality:

- Two green LED indicator lights are provided to show the surge protection is provided for all circuits connected to the panelboard. As a Siemens exclusive feature, the device notifies the owner about the loss of surge protection by tripping one or both circuit breakers. These breakers should be used for circuit protection of frequently used household circuits as the lights and devices connected to these circuits provide an effective indication that surge protection is being provided.
- If one or both circuit breakers have tripped, turn both circuit breakers to the "OFF" then "ON" position. If neither light is illuminated, the device may still be used for circuit protection, but surge protection is no longer provided, and the device should be replaced by a qualified electrician.
- The circuit breaker and SPD utilize Siemens-built 150V AC, 40mm, metal oxide varistors (MOVs). The maximum impulse rating for the SPD module is 40kA. The standard interrupting rating for the circuit breakers is 10k AIC. The circuit breakers are SWD and HACR rated.
- All Type QP circuit breakers and SPD are plug-on style, with load terminals provided. The devices are rated for 120/240V AC and are calibrated for 40°C maximum ambient applications.

### FirstSurge SPD:

The FirstSurge™ line of surge products offer solutions for both residential and commercial applications. The balanced defense and robustness of the FirstSurge units provide assurance to property owners that their modern homes, buildings and appliances are fully protected.



#### Features and benefits:

- 3-Stage – when the device wears out, the protection status LEDs extinguish, an audible alarm beeps, and a red service light flashes to warn the property owner.
- Modes of protection – the electrical system's primary paired conductor combinations of L-N, L-G, and N-G are directly surge protected.
- Balanced VPR protection – all primary paired conductors are surge protected in a balanced manner with 600V UL1449 VPRs.
- Ground reference monitoring – GRM diagnostics monitor the health of a unit's neutral to ground bond and alert the property owner if the bond becomes loose, preventing a potential safety issue.
- Safety – FirstSurge can achieve UL1449 listed 100kA SCCR - one of the highest ratings for residential surge protection.
- Surge current capacities: 60,000A / 100,000A / 140,000A
- Compatibility – device installs in any loadcenter brand

#### Surge current capacity:

The line offers three different surge protector sizes based upon geographic location and thunderstorm activity:

- FirstSurge Power (FS60): 60,000A
- FirstSurge Power (FS100): 100,000A
- FirstSurge Power (FS140): 140,000A



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### TPS3/TPS4 SPD:

Siemens' line of TPS3 SPDs consistently assures optimal performance through direct bus bar connections or minimal cable connections. This translates to some of the industry's best installed voltage protection ratings (VPRs) and surge current capacities ranging from 50kA to 1000kA. With the wide range of current capacities, the TPS3 product line can satisfy both commercial and residential applications as long as the voltage level matches the installation needs. Purchase a TPS unit to connect to a load center or configure a TPS unit to be factory in switchgear, switchboards, panelboards, MCCs, and busway.



#### Features and benefits:

- TPS TranSafe Enabled – Our patented TranSafe fault current protection circuitry provides peace of mind that your electronic loads are protected and that your electrical system will not go down due to SPD fault control operations.
- Integral or Internally Mounted for Optimized Protection – Internal surge protection dramatically reduces installation impedance allowing for superior installed suppressed voltage capabilities.
- SAD/MOV Hybrid Suppression – For mission critical applications needing the absolute best suppressed voltage, our hybrid SAD/MOV suppressors combine tight clamping technology with integrated suppression, delivering the strongest installed protection capabilities available.
- Retrofits – TPS3 01 and TPS3 09 Field retrofit within our P1 and our previous S1 distribution panel boards. When your needs change, Siemens TPS gives you the flexibility to retrofit Siemens panels with internal surge protection replicating factory installation.
- Low Suppressed Voltage Ratings – TPS Family offers some of the lowest UL 1449 listed suppressed voltage ratings available, meaning your electronics will last longer when compared to SPDs with higher ratings.
- Protected by 10 year warranty for SPD replacement. Exception – TPS3 03 units have a 5-year warranty for SPD replacement.

## Downloads

### Guides

[Power Product Catalogue - Section 9](#)

[FSPD - Datasheet](#)

[QSPD - Datasheet](#)

[FSPD vs FS - Comparison Guide](#)

[FSPD - Installation Manual](#)

### Distributor Locator

[Find your Siemens Canada Authorized Distributor](#)

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[Check out our Industry Malls](#)

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[Literature ordering for Siemens employees and distributor partners](#)



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## Commercial Surge Protection

We're committed to providing high quality surge protection solutions for your application in commercial and industrial electrical systems. Our complete portfolio of the whole-facility, highly reliable, and easy-to-install protective devices ensure the highest possible electrical system safety while delivering some of the industry's best performance ratings.

[Download brochure](#)

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## TPS4:

Siemens line of TPS SPDs provide optimal performance through direct bus bar connections or minimal cable connections – making this line one of the industry’s best installed voltage protection ratings (VPRs) and surge current capacities! Protection ranges from 50 to 1000kA. With the wide range of capacities, the TPS product line applies to commercial and residential applications as long as the voltage level matches the installation needs. Purchase a TPS unit to connect to a loadcenter or configure a TPS unit in a factory with switchgear, switchboards, panelboards, MCCs and busway.

## Features and benefits:

- Integral or internally mounted for optimized protection – Internal surge protection dramatically reduces installation impedance allowing for superior installed suppressed voltage capabilities.
- Low suppressed voltage ratings – TPS Family offers some of the lowest UL&CSA listed suppressed voltage ratings available, meaning your electronics will last longer when compared to SPDs with higher ratings.



## Downloads

[Power Product Catalogue - Section 9](#)

[TPS4-01 - Datasheet](#)

[TPS4-03 - Datasheet](#)

[TPS4-05 - Datasheet](#)

[TPS4-06 - Datasheet](#)

[TPS4-09 - Datasheet](#)

[TPS4-11 - Datasheet](#)

[TPS4-12 - Datasheet](#)

[TPS4-13 - Datasheet](#)

[TPS4-15 - Datasheet](#)

[TPS4-01 vs TPS3-01 - Comparison Guide](#)

[TPS4-03 vs TPS3-03 - Comparison Guide](#)

[TPS4-05 vs TPS3-05 - Comparison Guide](#)

[TPS4-06 vs TPS3-06 - Comparison Guide](#)

[TPS4-09 vs TPS3-09 - Comparison Guide](#)

[TPS4-11 vs TPS3-11 - Comparison Guide](#)

[TPS4-12 vs TPS3-12 - Comparison Guide](#)

[TPS4-15 vs TPS3-15 - Comparison Guide](#)

[TPS4 - all - Installation Manual](#)



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## FSPD:

FSPD is a line of surge protective devices for residential and commercial solutions. Listed as Type 2 devices, except FSPD036, the balanced defense and robustness provide assurance to property owners that their modern homes, buildings, and appliances are fully protected.

### Features and benefits:

- Surge current capacity – the lines offer different surge protector sizes based upon geographic location and thunderstorm activity.
- FSPD: 36kA, 60kA, 100kA and 140kA
- 3-Stage – when the device wears out, the protection status LEDs extinguish, an audible alarm beeps, and a red service light flashes to warn the property owner.
- Modes of protection – the electrical system's primary paired conductor combinations of L-N, L-G, and N-G are directly surge protected. Exception: the low cost FSPD036 has a reduced mode of protection (L1-N, L2-N).
- Balanced VPR protection – all primary paired conductors are surge protected in a balanced manner, in accordance with UL1449.
- Ground reference monitoring – GRM diagnostics monitor the health of a unit's neutral to ground bond and alert the property owner if the bond becomes loose, preventing a potential safety issue.
- Safety – FSPD line can achieve UL1449 listed 100kA SCCR ° one of the highest ratings for residential surge protection.
- Device installs in any loadcenter brand.

## Downloads

[FSPD - Datasheet](#)

[FSPD vs FS - Comparison Guide](#)

[FSPD - Installation Manual](#)



## BoltShield QSPD:

The new BoltShield BSPD provide the best protection from both externally and internally generated surges when located as close to the building distribution system as possible. For cost and space reasons many buildings only include one SPD located at the main incoming panel and do not cascade SPDs throughout the building as recommended by IEEE. The new Siemens BSPD series of SPDs, specifically designed for your commercial applications, are economical and easy to install in most panels throughout a building for the whole facility protection to be achieved.



### Features and benefits:

- 65kA per phase surge current rating
- Diagnostic monitoring – green/red visual mechanical flag failure indicators, flashing dual color LED status indicator, and audible alarm with silence switch/button
- Protected by a 10-year, \$50,000 Warranty
- Cascading – multiple QSPDs can be stacked in a single loadcenter for increased protection and surge capacity
- Modes of protection – the electrical system's primary paired conductor combinations of L-N, L-G, and L-L are directly surge protected
- BoltShield QSPD fits in footprint of Siemens QP breaker with 2 and 3 pole options



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## Digital Power Monitoring

### High efficiency and sustainability with digital power monitoring

Siemens recognizes that high performance facilities make for high performance business. Energy is the lifeline of your business, and better efficiency and sustainability can have a large positive impact on your bottom line. Energy Management and Control Systems from Siemens are complete enterprise solutions that help you manage the energy costs and availability of your business. With our advanced meters and controls, you can be sure to use only the energy you need, when you need it. Siemens Digital Power Monitoring Solutions contribute toward achieving LEED® certification and provides the needed energy metering data for federal/local government energy reductions programs.



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**SEM3 Branch Circuit  
Meters & Accessories →**



**Power/Power Quality  
Meters & Accessories →**



**Electrical Power Monitoring  
System (EPMS) Software →**



**Digital Solutions  
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# Circuit protection

## Molded Case Circuit Breakers

Siemens offers one of the most comprehensive lines of circuit breakers in Canada. Engineered to react in the most demanding conditions, our extensive product portfolio is designed for industrial, commercial, and residential applications. When it comes to ready availability, easy installation, and quality, we are a manufacturer you can always trust.

[Find authorized distributors](#)

### Our breakers

#### General Application Breakers

Siemens thermal-magnetic circuit breakers offer a solution for space and component size reduction in electrical systems, featuring valuable capabilities for demanding markets and Canadian manufactured products. Their compact design saves space, leading to smaller overall panels. →

#### Sentron Circuit Breakers

Siemens Sentron™ series circuit breakers have a long history of excellent performance in both commercial and industrial applications. Features include field installable accessories, series connected short circuit ratings, and much more. →

### Downloads

#### Power Product Catalogue

[Section 5 - Molded Case Circuit Breakers](#)

[Literature Download Center \(DGN\)](#)



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## General Application Circuit Breakers

Engineered to take on the most demanding conditions day after day.

Siemens panelboard mounted general application circuit breakers are industrial grade thermal-magnetic breakers with valuable features for demanding markets. Available in 240V, 480V, and 600Y/347V versions with trip units ranging from 15A to 250A and interrupting ratings from 10KAIC to 100KAIC. These breakers are compact in size therefore saving space and reducing overall panel size. The 240V panelboard mounting breakers are also available with Arc Fault or Ground Fault sensing capabilities. The 600Y/347V breakers offer field installable internal accessories which allow for last minute changes in the field.

General application molded case circuit breakers product line features:

### 240V breakers

- Suitable for a variety of construction applications
- Trip unit ratings from 15A to 250A
- One inch pole spacing (except QR frame)

### 600Y/347V breakers

- Field installable accessories – shunt trip, auxiliary switch or shunt/aux combinations.
- Meets various mult-national standards, global ratings including CSA, UL, NOM, and IEC.

**QR2 Molded Case Circuit Breakers**



**CQD and BQD Molded Case Circuit Breakers**



**NGB Molded Case Circuit Breakers**



**BL Molded Case Circuit Breakers**



## Downloads

### Flyers and Cutsheets

[Tandem BT Mini Breakers Flyer](#)

[Tandem BT BTH Mini Breakers Datasheet](#)

[QR 250A Frame Circuit Breakers Product Guide](#)

[G Frame Circuit Breakers Product Guide](#)

[Breaker Series Connected Short Circuit Ratings](#)

### Power Product Catalogue

[Section 5 - Molded Case Circuit Breakers](#)



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## Sentron Molded Case Circuit Breakers

**Proven performance in both commercial and industrial market segments.**

Siemens Sentron™ series circuit breakers have a long history of excellent performance in both the commercial and industrial market segments. Siemens Sentron Series circuit breakers are available in nine frame sizes from 125A to 2000A, in thermal-magnetic as well as electronic trip versions and are fully rated for use in North America (CSA, UL, NOM). Features include field installable internal and external accessories, series connected short circuit ratings, and many sizes for motor circuit protectors and molded case switches.

### Features and benefits:

- 15-2000A Ratings (fixed/interchangeable)
- Rated for use across North America (CSA, UL, CE, NOM)
- Field installable internal and external accessories
- Thermal Magnetic & Electronic Trip
- Sentron Sensitrip IV Electronic Trip breakers include Dynamic Arc Flash Sentry (maintenance mode)
- 100% rated frames available
- Many sizes for motor circuit protectors & molded case switches
- Current limiting versions available and certified per CSA without the use of fuses
- May be mounted in a suitable enclosure
- Field installable ground fault relay kits available for equipment protection (ED 125A frame)



## Downloads

### Datasheets

[Sensitrip IV SJD 400A Frame Datasheet](#)

[Sensitrip IV SLD 600A Frame Datasheet](#)

[Sensitrip IV SMD 800A Frame Datasheet](#)

[Sensitrip IV SND 1200A Frame Datasheet](#)

[Sensitrip IV SPD 1600A Frame Datasheet](#)

[Circuit Breakers Series Connected Short Circuit Ratings](#)

### Power Product Catalogue

[Section 5 - Molded Case Circuit Breakers](#)



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## WL Power Circuit Breakers

Reliable, versatile, and perfectly integrated. Designed for use in your low voltage switchgear and switchboard applications. For technical information and specifications, check out our Power Product Catalogue.

### Power Product Catalogue Section 6

**Reliable, versatile, and perfectly integrated. Designed for use in your low voltage switchgear and switchboard applications.**

Every power supply depends upon a reliable infeed of electricity. WL air circuit breakers reliably protect electrical installations against damage or fire as a result of short circuits, ground faults, or overload faults. WL air circuit breakers are used as incoming-feeder, coupler, and outgoing-feeder circuit breakers in electrical systems in industry, buildings, and infrastructure applications. They have communications capability and can be easily integrated into higher-level control and energy management systems. The ever-increasing use of plant and energy management systems has intensified the demand for circuit breakers supporting multiple open protocols to monitor and control the flow of energy in the power system. The extensive and modular WL family of circuit breakers and accessories provides this for applications ranging from 200 to 6000A.



### WL Power Circuit Breakers Technical Website

#### [Distributor Locator](#)

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### Features and benefits:

- The system solution offers monitoring and control through PROFINET IO, Modbus, Modbus TCP or PROFIBUS communications, supports energy management through advanced metering and quality analysis, and offers complete ratings and accessories – meeting every need with one design.
- This highly engineered reliable design offers increased operations and the Extended Instantaneous Protection function allowing 100% of the full withstand rating of the frame and still providing the ability of the breaker to be applied up to the maximum interrupting rating.
- Safety-related features such as a visible ready-to-close indicator, customizable interlocking, and mechanical trip indication offer peace of mind.
- Designed to meet standard industrial and commercial application requirements
- Compact without sacrificing performance and does not use energy-wasting heat sinks
- Common guide frames for the draw-out version make the breakers completely interchangeable between the UL 489 (CSA 22.2 no.5) and ANSI / UL 1066 rated circuit breakers
- Highly accurate internal Rogowski CTs allow for precision protection and metering – saving money on down time, field service, and increased customer satisfaction.
- The ease of use – from integrated racking handles, pull-apart front-mounted terminal blocks, and simple selection and application tools – reduces installation time and errors, adds flexibility, and minimizes training.

[Learn more](#)



[UL 489 WL Circuit Breakers →](#)

[UL 1066 WL Circuit Breakers →](#)

[IEC Circuit Breakers →](#)

[Communications →](#)



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### **UL 489 WL circuit breakers:**

This type of the WL low voltage insulated case circuit breakers are generally intended to provide service entrance, feeder, and branch circuit protection in accordance with UL/CSA 489. Standard for safety for molded case circuit breakers, molded case switches, and circuit breaker enclosures. This versatile family of insulated case circuit breakers is acceptable for use within low-voltage switchboards (i.e. UL 891), low-voltage motor control centers (i.e. UL 845), and other types of industrial control equipment (i.e. UL 508 series). Certain options and maintenance capability may be limited in comparison to the UL1066 listed circuit breakers. UL file numbers E231263, E236091, and E236299 apply. UL 489 WL power breakers are available in 3-pole configurations as fixed-mount and drawout frames.

### **UL 1066 WL circuit breakers:**

This type of WL low voltage power circuit breakers are generally intended to provide main and feeder circuit protection in accordance with UL1066 standard for safety for low-voltage AC and DC power circuit breakers used in enclosures. Available in 3-pole and 4-pole configurations as fixed-mount and drawout frames. These circuit breakers are constructed in compliance with ANSI/IEEE C37.13, and performance tested in accordance with ANSI C37.50. This versatile family of power circuit breakers is acceptable for use within low voltage switchgear (i.e. ANSI/IEEE C37.20.1, ANSI/IEEE C37.20.7, and UL 1558), low voltage switchboards (i.e. UL 891), low voltage motor control centers (i.e. UL 845), and other types of industrial control equipment (i.e. UL 508 series). Certain options and ratings may be limited in comparison to the UL/CSA 489 listed circuit breakers. UL file numbers E240124, E240232, E240233 and E236299 apply.

The UL 1066 4-pole breaker family is available for use in switchgear, switchboards and motor control centers. (A UL1066 breaker can be used in UL891 switchboard. A UL489 breaker is not required.) The 4-pole UL 1066 breaker is available in frame sizes 2 & 3 and shares the same breaker accessories as the 3-pole breakers. Connectors are optional up to 2000A; rear connectors are standard for 3200A FS2, 4000A, and 5000A FS3 breakers. Neutral protection is available as an option.

### **IEC circuit breakers:**

With over one million breakers sold around the world since the product introduction, WL Circuit breakers provide time-tested and proven technology in the low-voltage product portfolio. With a design created around customer needs and convenience, the WL family offers virtually unlimited configuration capabilities unique to its class, setting an industry precedent for modularity.

**Flexible:** Covers a power range from 630A to 6300A. The breakers are suitable for applications up to 1150VAC and as non-automatic switches up to 1000VDC.

**Simple:** Three frame sizes that support either a 3 or 4 pole design with fixed-mounted and draw-out versions.

**World's Smallest Air Circuit Breaker:** in the upper performance range, 5000A to 6300A, as FS3 offering.

**Full Communication Capability:** via PROFIBUS, PROFINET I/O or MODBUS; integrated communication concept with 3VL.

**Standards:**

- International standards and approvals
- IEC 60947-2
- DIN VDE 0690 Part 1
- Climatic withstand capability in acc. with DIN IEC 68 Part 30-2
- CCC, Gost
- Shipbuilding, e.g. GL, ABS, LRS, PRS for international applications

Please contact factory for additional information.

**Watch the video**



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## Communications:

WL air circuit breakers can be equipped with a communications module and integrated into higher-level energy management systems. Auxiliary, signaling, and position switches report condition and fault diagnostics to higher-level control systems, even remotely. The COM35 communication module may be used for the communication protocols PROFINET IO and Modbus TCP and is compatible with all WL air circuit breakers. This makes it particularly suitable for retrofit and expansion of power distribution systems. The COM35 can also be used to support Dynamic Arc-Flash Sentry (DAS) functions via ETU776 and ETU76B. The COM35 has a programmable free input and a free output contact which must be set to "DAS" using a software tool called 'powerconfig'. Powerconfig is designed to program Siemens type WL circuit breakers and the associated trip unit accessories (including CubicleBUS and communications modules). It runs on Windows-based computers and may be downloaded free of charge [here](#).

- PROFINET IO, Modbus TCP, Modbus & PROFIBUS Communication
- Digital and analog I/O option
- Dual parameter configuration
- Remote breaker operation
- Power metering capable
- Configuration software
- Zone interlocking
- Waveform capture & harmonic measurement

## Guides and Resources

[Power Product Catalogue - Section 6](#)

[WL Power Circuit Breakers  
- Selection and Application Guide](#)

[WL Power Circuit Breakers  
- Locking Provisions Application Guide](#)

[WL Power Circuit Breakers  
- Ground Fault Application Guide](#)

[Catalog LV 10](#)

[Catalog LV 18](#)

[Getting started with COM35 in  
powerconfig – Quick start guide](#)

[Remote Breaker Racking Device \(RBRD\)](#)

[Design guide for integration of fixed-  
mount circuit breakers](#)

[WLTS Hand-Held Test Set](#)

[WL Locking Provisions](#)

[Communication Manual  
- WL air circuit breakers via COM35  
- PROFINET IO, Modbus TCP](#)

[WL Circuit Breakers  
- Selection and Application Guide \(IEC\)](#)

[WL Circuit Breakers  
- Technical Guide \(IEC\)](#)

[PROFIBUS and MODBUS Communication  
- Application Guide](#)

[WL COM35 PROFINET IO  
- Modbus TCP - Flyer](#)

[UL489 Operator's Manual](#)

[UL1066 Operator's Manual](#)

[Breakers for Global Solutions OEM  
Applications Brochure](#)



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## Safety switches worth your trust

Siemens safety switches are offered in a wide variety of choices for both industrial and commercial applications. Featuring quick-make quick-break operation and a diverse set of options and accessories, our switches are designed to fulfill your protection requirements, minimize your downtime, and increase your profits with every step of the way.

[Find authorized distributors](#)

### Your safety placed first

For designing the ideal solutions for your protection requirements to providing you with the technical specifications to learn about safety switches, we are here to help you find the right products for your applications. Discover our Canadian-manufactured ID product line, along with many light, general, and heavy duty switch offerings.

[Power Product Catalogue - Section 3 - Safety Switches](#)

[Safety switches overview brochure](#)



[ID Switches →](#)

[General Duty Switches →](#)

[Heavy Duty Switches →](#)

[Double Throw Switches →](#)

[Light Duty Switches →](#)

[Air Conditioning Disconnects →](#)



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### ID switches:

- General duty switch designed for the Canadian market
- 30A to 600A options available
- 2P or 3P
- Fusible and non-fusible up to 600V AC
- Service entrance rated 30A to 600A switches
- Type 1 indoor enclosure
- Fuse puller included for 30A to 200A switches
- CSA certified under file #13076

### Features and benefits:

- Manufactured in Canada for quick delivery and easy access to replacement parts
- Compact size with integrated handle
- Quick make-quick break mechanism
- Visible "ON"-"OFF" indications
- Padlock-off handle feature and door padlock provision
- Accepts CSA certified Form I (Class J, R or H) and Form II fuses
- Suitable for use in a circuit that is rated for 200kA RMS



### General duty switches:

- 100A and 200A options available
- 240V AC or 250V DC fusible
- 2 Pole or 3 Pole
- Type 1 indoor enclosure
- Solid neutral (service entrance rated)
- Handle and cover padlocking provisions
- CSA certified

### Features and benefits:

- Quick-make quick-break operating mechanism that ensures positive operation
- Tangential knockouts for easy conduit lineup
- Generous wiring gutters that meet or exceed CEC wire-bending space requirements
- Visible blade, double-break switch action
- Side-hinged door that opens 180 degrees for easier wiring
- A unique enclosure design that adds rigidity and strength. Its rolled edge prevents cuts and scrapes to conductors and to installer's hands



**ID safety switch cutsheets**

**Power Product Catalogue Extract**



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### Heavy duty switches:

- 30 to 1200A options available
- 2P, 3P, 4P, or 6P
- 120V, 120/240V, 240V, or 600V
- Fusible or non-fusible
- Neutral (service entrance rated) or non-neutral
- Type 1, 3R, 4/4X, or 12 enclosure
- Viewing window and Crouse-Hinds receptacle options
- CSA certified

**Power Product  
Catalogue Extract**



[Series type heavy duty switches brochure](#)

### Double throw switches:

- Intended to transfer loads from one power source to another
- 30A to 600A options available
- 240V AC, 600V AC, or 250V DC
- 2 Pole or 3 Pole
- Fusible or non-fusible
- Type 1 indoor or Type 3R outdoor enclosure
- CSA certified

**Power Product  
Catalogue Extract**



#### Reliability

- Quick-make, quick-break operating mechanism that ensures positive operation
- Visible blade and double-break switching action
- Arc chutes dissipate heat and prolong switch life
- Spring reinforced fuse clips that assure reliable contact for cool operation

#### Easy Installation and Maintenance

- Unique enclosure design increases rigidity and prevents cuts and scrapes to installer's hands
- Generous top, bottom and side gutters that meet or exceed CEC wire-bending space requirements
- Hinged clear line terminal shield with probe holes for inspecting or testing line side terminals
- Top key hole and bottom mounting holes provide easy 2 or 3 point mounting

#### Accessories and Options

- Front removable mechanical lugs that are suitable for Cu/Al 60 or 75°C conductors
- Lugs are field convertible to copper body and to a wide variety of compression connectors
- Provisioned for CSA Class T, R, H, J, and L fuses
- Many accessories including fuse puller kits, neutral kits, and auxiliary contacts are available



Part 1:  
**Low Voltage**

Part 2:  
**Catalogues**

Part 3:  
**Made in Canada**

Part 4:  
**Training**

Part 5:  
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## Light duty switches:

- Plug fuse and 30A special application type
- 120/240V AC 2PH 3W
- 2 Pole
- Fusible
- Solid neutral (service entrance rated)
- Type 1 indoor enclosure
- CSA certified under file #24563



## Features and benefits:

- Quick-make quick-break operating mechanism that ensures positive operation
- Visible "ON"-"OFF" indications
- Padlock-off handle feature and door padlock provision
- Visible blade, double-break switch action
- Lugs suitable for copper or aluminum wire
- Hubs and ground bar kit available

## Air conditioning disconnects:

- 30A and 60A options available
- 240V fusible or non-fusible
- 2 Pole
- Type 3R outdoor enclosure
- Fuse Class H
- cUL Listed

## Features and benefits:

- The larger enclosure allows for ample wiring space
- Rugged design is resistant against fading, scratches, and corrosion
- Numerous knockouts (6) that are easy to remove
- Raised mounting embosses keep the unit away from the wall, preventing dirt build-up
- Copper current carrying conductor allows for a cooler, longer lasting operation
- Pullout switch design allows you to safely and easily de-energize the load terminals
- Easily removable door makes it possible to wire the device with absolutely no interference



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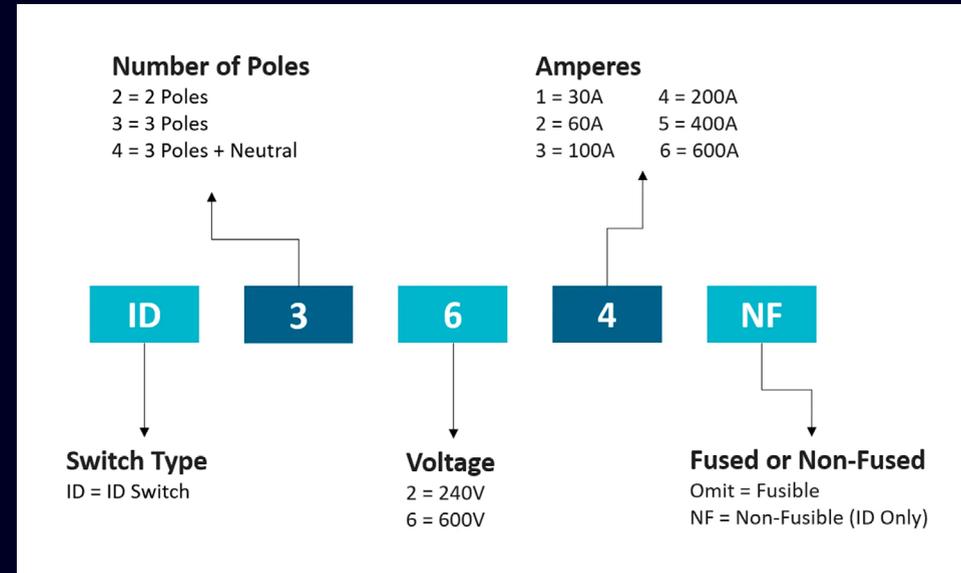
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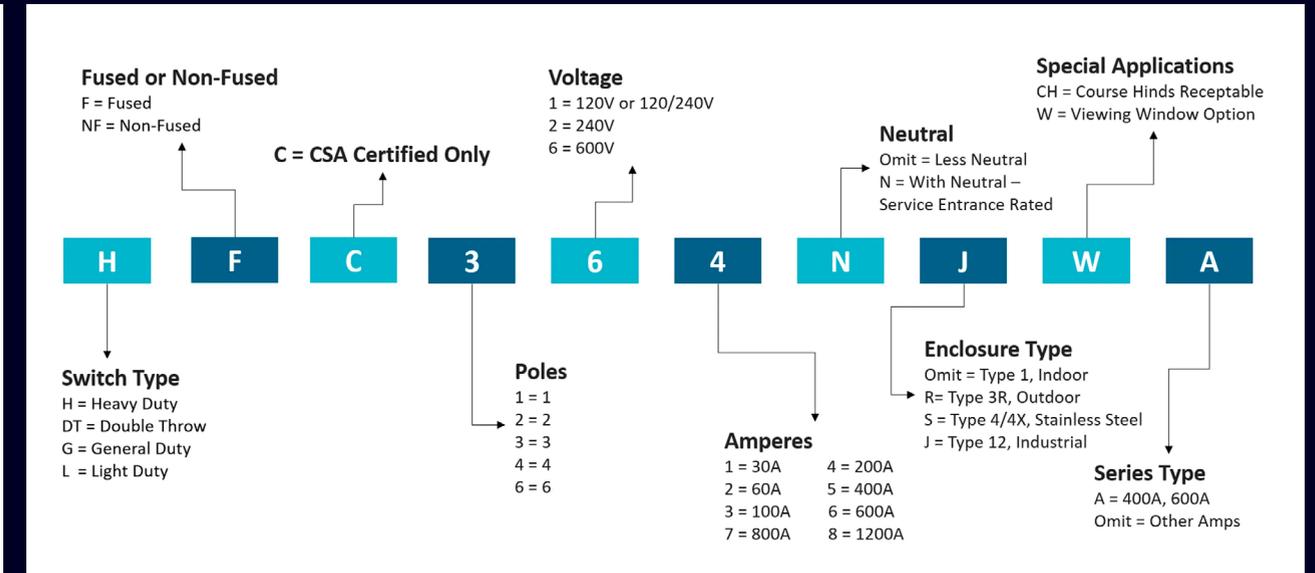
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## Find your safety switch



ID Safety Switch Numbering System



VBII Safety Switches Numbering System

## Accessories

An extended array of accessories and replacement parts are offered to reduce installation costs and allow for more flexibility and adaptability. This includes fuse clip and adapter kits of different classes, auxiliary contacts, internal shield kits, and ground kits. A versatile option of lug kits with different sizes and materials are available.

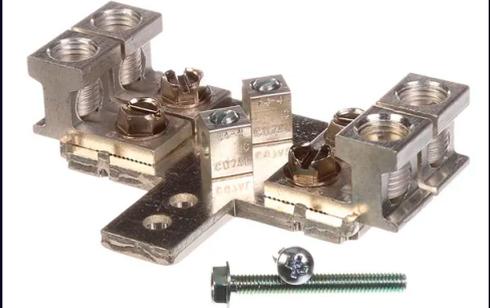
Fuse Clip Kit



Auxiliary Contact Kit



Neutral Kit



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# Industrial controls

## SIRIUS

With SIRIUS, we offer you a unique comprehensive portfolio for every industrial control application. The major advantages: With their modular design, our products can be planned and built into a control cabinet in a very simple way. They are especially easy to integrate into distributed systems.

[Download the complete catalogue](#)



**SIRIUS Control**



**SIRIUS Hybrid**



**SIRIUS Command**



**SIRIUS Monitor**



**General Purpose**



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## Keeping you safe in hazardous locations

### NEW! Class 1, Div. 2-rated contact blocks for 30mm NEMA Heavy Duty pilot devices, switches, and pushbuttons

The Siemens family of 30mm pilot devices are designed to stand up to the punishing water, dust and oil environments of manufacturing, offering three classes of sophistication: Standard duty control stations, hazardous location pilot devices and oiltight pilot device.

[View Class 1, div. 2-rated contact blocks flyer](#)

#### Discover the flexibility of Siemens hazardous location contact blocks:

- Suitable for Hazardous Location CL1, DIV2 Applications using a standard enclosure NEMA 1, 12, 13, 4, 4X.
- Rated for switching high inrush loads like tungsten lamps.
- Suitable for switching small motor loads without the use of an interposing relay, or contactor, meaning fewer components, less wiring, and reduced enclosure size.
- Factory sealed, making it an excellent solution for non-hazardous applications where dust can be present inside the enclosure.

That's why the trusted and reliable devices that you have come to depend on are now available with Class 1 Div. 2 hazardous location contact blocks. Our class 52, 30mm pushbuttons and devices now come with contact blocks that are rated to be used in Class 1 – flammable gases, flammable liquid-produced vapors and combustible liquid-produced vapors.



Class1, Div.2 Contact Blocks for Oil and Gas, Mining, Chemical, Mills and many other Industries



Class1, Div.2 Contact Blocks for NEMA 30mm Pilot Devices



Stacked Class1, Div.2 Contact Blocks for NEMA 30mm Pilot Devices



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## SIRIUS explained web-based training

Stay up to date with our on-demand recordings, discover beneficial tips and facts on our industrial motor control products.



### Convert old to new

How to use the conversion tool on Siemens Industry Mall to find new replacement devices to Siemens classic industrial control product offerings.

[View recorded webinar](#)

06:00 min



### 3SK Safety Relays

Introduction to SIRIUS Safety Relays: key available features, and basic operation.

[View recorded webinar](#)

13:18 min



### SIRIUS Explained

With our explanatory video series #SiriusExplained, we give you complex content about products in concise form and abstract topics or facts short and tangible. Be clever, be smart, #BeSIRIUS

[SIRIUS Training](#)



### Ask our Experts

Want even more? Check out Ask our Experts for upcoming and on-demand webinars on our comprehensive Smart Infrastructure portfolio offerings.

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