Backed by Siemens Innovation and Technology

Siemens VL Circuit Breakers are designed on the principle of electrical freedom. The main principle is to develop a system that is easy to use for the installer, yet powerful enough to suit the needs of any application. VL Circuit Breakers are designed for optimum protection and isolation in filled electrical distribution systems. VL Trip Units are available for the following applications: filled electrical distribution systems. VL Trip Units are UL listed for field installation and measure circuit currents in the event of an electrical fault. VL Circuit Breakers are designed on the principle of electrical freedom. This allows the current limiting contact magnetic repulsion. This allows the current limiting function to be independent of the trip unit.

Thermal-Magnetic Trip Specification

Each circuit breaker shall operate automatically by means of a thermal-magnetic trip unit. The trip unit shall be of the instantaneous overcurrent type and shall be adjustable from the front of the breakers. Where indicated on the drawings or the combination motor starter/motor control schedule, furnish instantaneous magnetic trip only circuit breakers for motor short circuit protection. The magnetic trip setting shall be adjustable from the front of the breakers.

Building on the Tangram

Siemens VL Circuit Breakers are modular in design. VL circuit breaker packages can be easily broken down into custom solutions for thousands of different combinations for all energy applications. The uniform design enables VL circuit breakers to be used across all frame sizes. Shunt trips and under voltage releases shall be available in two groupings by frame size, up to 600A and from 600A to 1000A. All internal accessories shall be field installable using a “snap-in-place” method and will be mounted in an isolated pocket inside the front cover of the breaker.

Siemens Energy & Automation, Inc.
Alpharetta, GA 30005
1-800-946-0712
www.vl.siemens.com/pioneer

Guide Form Specifications

Guide Form Specifications are available in customizable formats for easy use in proposals, quotations, and other project planning. Siemens is a registered trademark of Siemens AG. Product names mentioned may be trademarks or registered trademarks of their respective companies. Specifications are subject to change without notice.

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Siemens Inc. (formerly Westinghouse Electric Corporation) is a leading manufacturer of molded case circuit breakers. These breakers are designed to protect electrical systems from damage caused by overloads and short circuits. Key features and benefits include:

- Easy breaker selection
- Adjustable short-circuit protection
- Operates without the need for auxiliary voltage
- Plug-in socket for field testing device
- Fixed overload protection
- Ideal for line protection
- Fully adjustable LSI and LSIG settings for Bill of material generator

Siemens VC Molded Case Circuit Breaker Features & Benefits

**Guide Form Specifications**

- Choose either thermal-magnetic or electronic trip specifications
- Each circuit breaker shall operate automatically by means of a thermal-magnetic trip unit
- All circuit breakers shall have a quick-make, quick-break over center toggle-type mechanism and the handle mechanism will be trip-free to prevent holding contacts closed against a short circuit or sustained overload

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www.sea.siemens.com/power
info.sea@siemens.com
Alpharetta, GA 30005

Siemens Energy & Automation, Inc.
Alpharetta, GA 30005
1-800-999-6712

www.siemens.com/power

The Tangram

- A new breed of breakers opens up the possibility for flexible planning and allowing simple integration and as your plant capacity or markets expand, VL is the new set of advancements to circuit protection. With Siemens, a name that stands for innovation, now brings a new breed of breakers. Suddenly you have countless possibilities with a standard solution — a solution optimally designed for most earth, VL circuit breakers are standard, no matter where on the plant operator.

- VL circuit breakers are designed to save you a lot. One example is without special tools and, as far as your plant capacity or markets expand, VL is the new set of advancements to circuit protection. With Siemens, a name that stands for innovation, now brings a new breed of breakers. Suddenly you have countless possibilities with a standard solution — a solution optimally designed for most earth, VL circuit breakers are standard, no matter where on the plant operator.

- When you think about your costs for operational processes, module by module, VL circuit breakers address the critical issue: Your costs for operational processes, few standard parts, making it easier for you to trust anywhere.

- Fast Service

- Cost-Saving

- Modular architecture allows you to get the best out of operational processes, few standard parts, making it easier for you to trust anywhere.

- Never before have circuit breakers been so versatile and flexible planning and allowing simple integration and as your plant capacity or markets expand, VL is the new set of advancements to circuit protection. With Siemens, a name that stands for innovation, now brings a new breed of breakers. Suddenly you have countless possibilities with a standard solution — a solution optimally designed for most earth, VL circuit breakers are standard, no matter where on the plant operator.

- Time Savings

- Easy breaker selection

- Internal accessories are accessible through a combination of the main line.

- Overcurrent protection (reverse time delay for overload and short-circuit curves in the event of an electrical fault. VL Circuit Breakers feature N-Class (35kA), H-Class (65kA) and L-Class (100kA) interrupting ratings. They also feature both thermal-magnetic and electronic trip units across the entire product line, assuring compatibility for virtually any application. All of magnetic and electronic trip units must be available.

- Each circuit breaker shall operate automatically by means of a thermal-magnetic trip unit providing inverse time delay for overload protection. They are fitted with fixed instantaneous settings. They shall be available for primary isolator, motor starter protection and combination starter applications (consisting of a motor contact magnetic repulsion. This allows the current limiting effect of the breakers to help protect the system components. They are fitted with fixed instantaneous settings.

- All circuit breakers shall have a quick-make, quick-break over center toggle-type mechanism and the handle mechanism will be trip-free to

- VL Circuit Breaker Features & Benefits

- Fully adjustable LSI and LSIG settings for Bill of material generator

- Siemens is a registered trademark of Siemens AG. Product names mentioned may be trademarks or registered trademarks of their respective owners.
Siemens VL Circuit Breakers

**Guide Form Specifications**

**General Specifications**

Siemens uncooled circuit breakers shall be provided for the protection of all electrical circuits. Other than overload protection, the breaker shall provide effective protection against short circuits. All circuit breakers shall be listed by Underwriter’s Laboratories, as well as comply with International Electrotechnical Commission (IEC) 947-2, UL 489, Underwriters Laboratories UL listed, CSA-certified, and Amendments to UL 489 underwriters laboratories class 2. Failure to comply with UL 489, CSA-certified. Breaker shall be included to be on the UL listed for the entire application.

All circuit breakers shall be of modular design and have available interchangeable trip units. The trip unit will define the nominal current rating actually separated. No rating plugs will be required. For the protection and coordination for all circuits, 30A through 1600A, thermal-electronic trip units must be available. For standard applications, thermal and electronic trip units are available. Those trips units shall be available with fixed settings or adjustable settings. They are fitted with fixed instantaneous settings. They are fitted with fixed instantaneous settings.

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Competitive Advantages To Reduce Your Installed Cost

- The compact size and modular design reduce installation time.
- The intuitiveness and ease of use significantly reduce training and setup.
- The modularity and flexibility reduce costs, support quick ship opportunities, and promote the introduction of new products with minimal cost.
- The compact size saves real estate and its associated costs.
- Money on confirmation tests and eliminations of unnecessary elements.
- Virtually every market using it is cost-effective.
- The magnetic and flexibly accessible fuse holders allow for last minute inventory, allow for last minute.
- The compact size saves real estate and its associated costs.
- Global ratings, accessories, and footprints serve virtually every market.
- The intuitiveness and ease of use significantly reduce training and setup.
- Approval pending.
- For higher reliability most VL components have UL. Automated bar code tracking, testing, and calibration of every breaker saves money on confirmation tests and eliminations of unnecessary elements.

Communications Capability

Communications available via communications module.

Electric Motor Operator

- Electric Motor Operator
- Electric Motor Operator
- Electric Motor Operator

Mechanical Interlock

- Mechanical Interlock
- Mechanical Interlock
- Mechanical Interlock

Handle Mechanisms

- Handle Mechanisms
- Handle Mechanisms
- Handle Mechanisms

Draw-out Assembly

- Draw-out Assembly
- Draw-out Assembly
- Draw-out Assembly

Auxiliary Switch

- Auxiliary Switch
- Auxiliary Switch
- Auxiliary Switch

Alarm Switch

- Alarm Switch
- Alarm Switch
- Alarm Switch

100% Rated

- 100% Rated
- 100% Rated
- 100% Rated

Shunt Trip

- Shunt Trip
- Shunt Trip
- Shunt Trip

Electronic

- Electronic
- Electronic
- Electronic

Motor Circuit Protector

- Motor Circuit Protector
- Motor Circuit Protector
- Motor Circuit Protector

Undervoltage Release

- Undervoltage Release
- Undervoltage Release
- Undervoltage Release

Rear Connecting Studs

- Rear Connecting Studs
- Rear Connecting Studs
- Rear Connecting Studs

Rear Connecting Studs

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Rear Connecting Studs

- Rear Connecting Studs
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- Rear Connecting Studs

Undervoltage Release

- Undervoltage Release
- Undervoltage Release
- Undervoltage Release

Extended Terminal Shield

- Extended Terminal Shield
- Extended Terminal Shield
- Extended Terminal Shield

Plug-In Terminal Blades

- Plug-In Terminal Blades
- Plug-In Terminal Blades
- Plug-In Terminal Blades

Bus Extensions

- Bus Extensions
- Bus Extensions
- Bus Extensions

Base for Plug-In or Draw-Out

- Base for Plug-In or Draw-Out
- Base for Plug-In or Draw-Out
- Base for Plug-In or Draw-Out

Auxiliary/Alarm Switches

- Auxiliary/Alarm Switches
- Auxiliary/Alarm Switches
- Auxiliary/Alarm Switches

Circuit Breaker

- Circuit Breaker
- Circuit Breaker
- Circuit Breaker

Max Flex Operator

- Max Flex Operator
- Max Flex Operator
- Max Flex Operator

Variable Depth Rotary Operator

- Variable Depth Rotary Operator
- Variable Depth Rotary Operator
- Variable Depth Rotary Operator

Stored Energy Operator

- Stored Energy Operator
- Stored Energy Operator
- Stored Energy Operator

Cover Frame for Door Cutout

- Cover Frame for Door Cutout
- Cover Frame for Door Cutout
- Cover Frame for Door Cutout

Electronic Trip Unit Test Kit

- Electronic Trip Unit Test Kit
- Electronic Trip Unit Test Kit
- Electronic Trip Unit Test Kit

Communication Module with ZSI

- Communication Module with ZSI
- Communication Module with ZSI
- Communication Module with ZSI

Electronic Trip Unit with LCD (576)

- Electronic Trip Unit with LCD (576)
- Electronic Trip Unit with LCD (576)
- Electronic Trip Unit with LCD (576)
**Fungus Proof**

**50ºC Calibrated**

**Communications Capability**

**Competitive Advantages To Reduce Your Installed Cost**

**For higher reliability, most VL components**

**UL. Automated bar code tracking, testing,**

**opportunities, and promote the**

**inventory, allow for last minute**

**The modularity and flexibility reduce**

**training and significantly reduce**

**eliminate the need for special**

**The intuitiveness and ease of use**

**distribution allow you to efficiently**

**serve virtually every market using**

**money on confirmation tests and**

**and footprint.**

**field service.**

**10,000**

**20,000**

**6,000**

**8,000**

**Typical 600A**

**Typical 100A**

**DG150**

**FG250**

**JG400**

**Breaker Frame Family**

| VL circuit breakers are inherently fungus resistant. |
| Consult Siemens. Approval pending. |

**Modularity To Support All Your Application Needs**

**Modules and More: VL Circuit Breakers with Optional Accessories**

**Standard Terminal Shield**

**Extended Terminal Shield**

**Plug-In Terminal Blades**

**Bus Extensions**

**Interphase Barriers**

**Shunt Trip or Undervoltage Releases**

**Circuit Breaker**

**Variable Depth Rotary Operator**

**Cover Frame for Door Cutout**

**Communication Module with ZSI**

**Electronic Trip Unit (545)**

**Thermal-Magnetic Trip Unit (525)**

**Rear Connecting Studs**

**Handle Mechanisms**

**Molded Case Switch**

**Draw-out Assembly**

**Alarm Switch**

**100% Rated**

**15/8**

**15/8**

**20/10**

**20/10**

**30/15**

**30/15**

**35/17**

**35/17**

**65/65**

**100/75**

**200/150**

**65/35**

**100/50**

**200/100**

**12/6**

**12/6**

**12/6**

**12/6**

**25/25**

**25/25**

**25/25**

**25/25**

**75/25**

**100/65**

**200/200**

**65/65**

**100/100**

**200/200**

**Shunt Trip or Undervoltage Releases**

**Circuit Breaker**

**Variable Depth Rotary Operator**

**Cover Frame for Door Cutout**

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**35/17**

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**65/65**

**100/75**

**200/150**

**65/35**

**100/50**

**200/100**

**12/6**

**12/6**

**12/6**

**12/6**

**25/25**

**25/25**

**25/25**

**25/25**

**75/25**

**100/65**

**200/200**

**65/65**

**100/100**

**200/200**

**VL Circuit Breakers with Optional Accessories**

**Modularity To Support All Your Application Needs**

**VL Circuit Breakers with Optional Accessories**
Features and Benefits

- **Reliability and Durability**: High-grade materials and advanced manufacturing processes ensure long life and reduce costs over the breakers’ lifetimes.

- **Modularity and Flexibility**: The modular design of VL circuit breakers allows for easy assembly and customization to meet specific needs.

- **Compact Size**: Inexpensive real estate and simple connection.

- **Operability and Performance**: Capable of handling high-end applications.

- **Low-Profile Design**: Occupies less space and is ideal for high-density installations.

- **Competitive Advantage**: Reduces your reinstallation costs.

Modularity To Support All Your Application Needs

**VL Circuit Breakers with Optional Accessories**

- **Standard Terminal Shield**
- **Extended Terminal Shield**
- **Plug-In Terminal Blades**
- **Terminal Connectors**
- **Bus Extensions**
- **Base for Plug-In or Draw-Out**
- **Cover Frame for Door Cutout**
- **Max Flex Operator**
- **Variable Depth Rotary Operator**
- **Rotary Handle Operator**
- **Stored Energy Operator**

**Electronic Trip Units**

- **Electronic Trip Unit Test Kit**
- **Communication Module with ZSI**
- **Electronic Trip Unit with LCD (576)**
- **Electronic Trip Unit (545)**

**Accessories & Modifications**

- **Rear Connecting Studs**
- **Undervoltage Release**
- **Mechanical Interlock**
- **Alarm Switch**
- **Shunt Trip**

**Draw-out Assembly**

- **Molded Case Switch**

**Ground Sensors**

- **(Neut. Trans)**
- **(Neut. Trans)**
- **(Neut. Trans)**
- **(Neut. Trans)**

**DIN rail/panel mounting**

- **50ºC Calibrated**

**Applications**

- **Breaker Frame Family**
  - **DG FG JG LG MG NG PG**
- **AC 50/60Hz**
- **RMS**
- **Interrupting Ratings**
  - **(UL)**
  - 220/240Vac (Icu/Ics) 65/65 100/75 200/150 65/65 100/75 200/150 65/65 100/75 200/150
  - 600Vac 18 20 25 18 20 25 25 25 25
  - 250Vdc (2-pole) 30 30 30 30 30 30 30 30 30
  - 240Vac 65 100 200 65 100 200 65 100 200

**Dimensions**

- **Continuous Amps**
  - **IN 50 – 150 A 70 – 250 A 250 – 400 A**

**Current Rating**

- **Ir 30 – 150 A 40 – 250 A 70 – 400 A**

**IEC**

- **750Vdc (4-pole)**
- **220/240Vac (Icu/Ics)**
- **18 20 25 18 20 25 25 25 25**
- **25 35 35 35 50 65 35 50 65 35 50 65**

**Terminations**

- **NH LN HL N H L N H L**

**Material and Finish**

- **NEMA 1 – Indoor, Flush Mount •••**
- **NEMA 3R – Outdoor, Rain Proof •••**
- **For higher reliability, most VL components have twice the endurance specified by standards and are pre-tested.**
- **Operable at temperatures as low as –40ºC.**

**Fungus Proof**

- **VL circuit breakers are inherently fungus resistant.**

**Communications**

- **Communications available via communications module.**
- **Not UL listed.**

**Approval pending.**

<table>
<thead>
<tr>
<th>Breaker Frame Family</th>
<th>DS</th>
<th>PG</th>
<th>JB</th>
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</thead>
<tbody>
<tr>
<td><strong>AC 50/60Hz</strong></td>
<td></td>
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<tr>
<td><strong>RMS</strong></td>
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<tr>
<td><strong>Interrupting Ratings</strong></td>
<td>(UL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>220/240Vac (Icu/Ics)</td>
<td>65/65</td>
<td>100/75</td>
<td>200/150</td>
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<tr>
<td>600Vac</td>
<td>18</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>250Vdc (2-pole)</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>240Vac</td>
<td>65</td>
<td>100</td>
<td>200</td>
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<tr>
<th>Breaker Type</th>
<th>NDG</th>
<th>HDG</th>
<th>LDG</th>
<th>NFG</th>
<th>HFG</th>
<th>LFG</th>
<th>NJG</th>
<th>HJG</th>
<th>LJG</th>
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<tr>
<td><strong>Max. Volts</strong></td>
<td>AC 600 V</td>
<td>AC 600 V</td>
<td>AC 600 V</td>
<td>AC 600 V</td>
<td>AC 600 V</td>
<td>AC 600 V</td>
<td>AC 600 V</td>
<td>AC 600 V</td>
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<tr>
<td><strong>Current Rating</strong></td>
<td>Ir 30 – 150 A</td>
<td>40 – 250 A</td>
<td>70 – 400 A</td>
<td>30 – 150 A</td>
<td>40 – 250 A</td>
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<td><strong>Continuous Amps</strong></td>
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<td>250 – 400 A</td>
<td>50 – 150 A</td>
<td>70 – 250 A</td>
<td>250 – 400 A</td>
</tr>
</tbody>
</table>
UL. Automated bar code tracking, testing, have twice the endurance specified by most cost effective configuration.

opportunities, and promote the changes, support quick ship installation time.

and calibration of every breaker saves money on confirmation tests and its associated costs.

Global ratings, accessories, and footprint.

Typical 600A DG150 FG250

3-pole 6.9 H x 4.1 W x 3.4 D
380/415Vac (Icu/Ics) 40/40 70/70 100/75
220/240Vac (Icu/Ics) 65/65 100/75 200/150
690Vac (Icu/Ics) 12/6 12/6 12/6
600Vdc (3-pole) 500Vdc (3-pole) 18 18 18
250Vdc (2-pole) 30 30 30

Fungus Proof

Not UL listed.

Communications available via communications module.

Consult Siemens.
Siemens VL Circuit Breaker Features & Benefits

**N/H/L Class, Model 525 – Thermal Magnetic Trip Units:**
These are designed for optimum protection and isolation in supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor supply, main or non-automatic switches without overload combination starter applications (consisting of a motor). Breaker feature N-Class (35kA), H-Class (65kA) and L-Class (100kA) interrupting ratings. They also feature both thermal and magnetic trip settings, allowing for flexible protection settings.

**Interference-Strip Trip Specifications (Optional):**
These specifications are designed to protect against interference from external sources, such as lightning, surges, or electromagnetic disturbances. The specifications are adjustable and set from the front of the trip unit, ensuring a high level of protection against interference that could affect the performance of the circuit breaker.

**Built-in LED Type (Optional):**
This feature is designed to provide visual feedback to the operator, indicating the status of the circuit breaker. It includes an LED that shows whether the breaker is in service, indicating the operational status.

**V.L. Circuit Breaker Features & Benefits:**
- **Easy breaker selection**
- User-friendly, menu-driven setting of protection
- **Integrated self-test function**
- Technical documentation
- Fully adjustable LSI and LSIG settings for Plug-in socket for field testing device
- **Integral LCD display**
- Technical database

**N/H/L Class, Model 545, Electronic Trip Units:**
These trip units are designed to provide advanced protection and monitoring features. They include an electronic circuit breaker controller (ECC) that can be used for remote monitoring and control. They are available in three classes: N-Class (35kA), H-Class (65kA), and L-Class (100kA) interrupting ratings. This type of measurement ensures the most accurate and reliable protection for various applications.

**Breaker Information Guide (Technical Data):**
- Multi-formatted breaker drawings (CAD or PDF)
- Internet links with easy to use navigation
- PC-based time current curve software program

**Electronic Catalog:**
- Offers easy submittals
-嗫嚅

**N/H/L Class, Model 576, Electronic LCD Trip Units:**
These trip units are designed for advanced protection and monitoring features. They include an electronic circuit breaker controller (ECC) that can be used for remote monitoring and control. They are available in three classes: N-Class (35kA), H-Class (65kA), and L-Class (100kA) interrupting ratings. This type of measurement ensures the most accurate and reliable protection for various applications.

**Thermal Magnetic Trip Specification:**
These specifications are designed to protect against thermal overload and magnetic trip settings. The specifications are adjustable and set from the front of the trip unit, ensuring a high level of protection against thermal overload and magnetic trip settings.

**General Specifications:**
- Each circuit breaker shall operate automatically by means of a thermal-magnetic, electronic and electronic with integral LCD display type trip units must be available.
- The complete breaker and no rating plugs will be required. For the protection and coordination for all circuits, 30A through 1600A, thermal-magnetic, electronic and electronic with integral LCD display type trip units must be available.
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