Medium-voltage air-insulated switchgear

GM38, non-arc-resistant, 38 kV, up to 40 kA drawout, metal-clad

Features and benefits:
- One-high construction
- Up to 50 full-fault interruptions
- Universal spare circuit breaker
- Closed door racking
- Interlocks permit insertion of higher rated vacuum circuit breaker into lower rated cell but not vice versa
- Front accessible circuit breaker operating mechanism for ease of maintenance
- Floor rollout circuit breaker in lower cell without a dolly
- Visible secondary disconnect
- Pair with Siemens protective relays to match any typical application
- Horizontal drawout type 38-3AH3 vacuum circuit breaker with type 3AH3 operating mechanism
- Uses the latest developments in vacuum interrupter technology
- Highly reliable vacuum interrupters - MTTF over 50,000 years
- Common type 3AH3 operator platform for all ratings
- Over 120,000 type 3AH3 operators produced since 1998
- 10,000 operations to overhaul
- Three-cycle interrupting time (optional)
- SIERS integrated electrical-racking system available (optional)
- Optional Sm@rtGear™ functionality provides predictive diagnostics, continuous monitoring, and control from a remote location
- Meets or exceeds the latest ANSI, IEEE and NEMA standards
- UL Listing for 40 kA available.

Type GM38 switchgear available as:
- Indoor (type GM38)
- Outdoor, walk-in, Shelter-Clad NEMA 3R (type SGM38)
- Single aisle
- Common aisle
- Outdoor, aisleless, non-walk-in (type OGM38).

usa.siemens.com/mvswitchgear
### Type 38-3AH3 circuit breaker ratings constant kA basis - ANSI/IEEE C37.06-2009

<table>
<thead>
<tr>
<th>Maximum design voltage kV</th>
<th>Rated interrupting rating kA</th>
<th>Maximum interrupting and short time kA</th>
<th>Voltage range factor</th>
<th>Continuous current(^1) A rms</th>
<th>Withstand voltage levels</th>
<th>Closing and latching (momentary)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Power frequency kV rms</td>
</tr>
<tr>
<td>38.0</td>
<td>31.5</td>
<td>31.5</td>
<td>1.0</td>
<td>1,200, 2,000, 3,000</td>
<td>80</td>
<td>150</td>
</tr>
<tr>
<td>38.0</td>
<td>40</td>
<td>40</td>
<td>1.0</td>
<td>1,200, 2,000, 3,000</td>
<td>80</td>
<td>150</td>
</tr>
</tbody>
</table>

### Dimensions in inches (mm)\(^3\)

<table>
<thead>
<tr>
<th>Type</th>
<th>Height (H)</th>
<th>Width (W)</th>
<th>Depth (D)</th>
<th>Drawout aisle (DA)(^4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM38(^2)</td>
<td>110.0 (2,794)</td>
<td>48.0 (1,219)</td>
<td>130.0 (3,302)</td>
<td>96.0 (2,438) recommended</td>
</tr>
<tr>
<td>SGM38 single aisle</td>
<td>132.5 (3,366)</td>
<td>48.0 (1,219)</td>
<td>234.5 (5,956)</td>
<td>96.0 (2,438) included</td>
</tr>
<tr>
<td>SGM38 common aisle</td>
<td>132.5 (3,366)</td>
<td>48.0 (1,219)</td>
<td>363.8 (9,239)</td>
<td>96.0 (2,438) included</td>
</tr>
<tr>
<td>OGM38 non-walk-in aisleless</td>
<td>48.0 (1,219)</td>
<td>48.0 (1,219)</td>
<td>139.4 (3,539)</td>
<td>96.0 (2,438) recommended</td>
</tr>
</tbody>
</table>

#### Footnotes:

1. 3,000 A circuit breaker together with a modified switchgear structure incorporating fan-cooling equipment. 3,000 A is not available in outdoor equipment.
2. Add 6” (152 mm) to each end of lineup for aisle extension 12” (305 mm) total.
3. Add for roof and enclosure overhang: Rear (cable side):
   - Non-walk-in: 3.9” (98 mm)
   - Shelter-Clad: 3.9” (98 mm).
   Front (drawout side):
   - Non-walk-in: 6.9” (175 mm)
   - Shelter-Clad: 1.5” (38 mm).
4. If indoor switchgear is installed on a raised housekeeping pad, the pad must not extend further than 3” (75 mm) from the front of the switchgear to avoid interference with the use of the portable lift truck.
5. 96.0” (2,438 mm) aisle space recommended and allows room for interchange of circuit breakers. Minimum aisle space required for handling circuit breakers with lift truck is 80” (2,030 mm).

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