SIEMENS
Ingenuity for life

SIEBREAK-VCB™ metal-enclosed switchgear

Metal-enclosed, load-interrupter switchgear up to 1,200 A and 15 kV

Description
Siemens type SIEBREAK-VCB™ load-interrupter switchgear is a modular assembly of switches, fixed-mounted vacuum circuit breakers, and bus assemblies that are fully integrated both mechanically and electrically to provide the highest level of medium-voltage circuit protection.

Features and benefits:
- 5 kV and 15 kV voltage classes
- 600 A and 1,200 A continuous current
- Siemens overcurrent protection relay
- Indoor type 1 enclosure
- Single and duplex switch types
- Large 8" x 18" (203 mm x 457 mm) viewing window
- Hinged, grounded metal barrier in front of switch blades
- 11-gauge doors, covers, and barriers
- Silver-plated copper bus
- Provisions for key interlocking
- Mechanical door and switch interlock
- Upper and lower ventilation louvers
- Glass-polyester bus supports
- Non-corrosive nameplate
- Space heater with thermostat (optional)
- NEMA CC1 hole patterns for cable termination
- Current transformers (CTs) - one per phase.

Standards
The equipment meets or exceeds applicable standards from ANSI, IEEE, CSA, EEMAC, and NEMA.

Applications:
- Standalone bay
- Transformer primary
- Lineups.

Arc-flash mitigation
Suitable for application as a virtual secondary main circuit breaker, to allow reduction in arc-flash incident energy in the low-voltage switchgear for faults on the main bus (with no main circuit breaker) or faults on the line side of a main circuit breaker.

Standard outdoor features:
- Long-life space heaters (half-voltage)
- Bottom cover plate
- Externally removable filters
- 6" (152 mm) formed steel base.

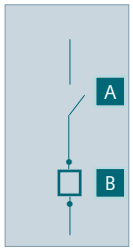
Optional:
- UL or C-UL Listing
- Indoor type 2 drip-proof enclosure
- Indoor type 12 dust-resistant enclosure
- Outdoor non-walk-in type 3R enclosure
- High-track resistance bus supports
- Auxiliary switches (2 NO-2 NC)
- Mimic bus
- Ground studs (ball stud) type
- Screens and filters (indoor)
- Tin-plated copper bus
- Second set of CTs.

Modular configurations to mount:
- Surge arresters
- Instrument transformers
- Control power transformers
- Power meters.

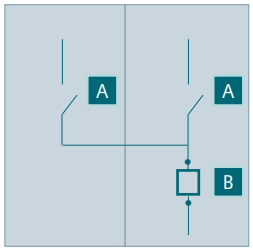
Switchgear assembly ratings				
System design voltage	Impulse-withstand voltage	Main bus continuous current	Momentary current asymmetrical	Rated short-time (2 seconds) current symmetrical
kV	kV BIL	A	rms kA	rms kA
5.0	60	600	39	25
5.0	60	600	59	38
5.0	60	1,200	39	25
5.0	60	1,200	59	38
15.0	95	600	39	25
15.0	95	600	59	38
15.0	95	1,200	39	25
15.0	95	1,200	59	38

Standard configuration	Single	Duplex	Lineup
Types 1, 2, 12, and 3R enclosure	•	•	•
36" (914 mm) wide types 1, 2, 12, and 3R	•		
72" (1,829 mm) wide		•	
60" (1,524 mm) wide for front-access design	•		•
2.62" (67 mm) width transition to dry-type transformer for type 3R outdoor	•	•	
18" (457 mm) width transition to liquid-filled transformer	•	•	
92" (2,337 mm) height types 1 enclosure	•	•	•
105" (2,667 mm) height type 3R enclosure	•	•	•
62" (1,575 mm) depth standard types 1, 2, and 12 enclosure	•		
72" (1,829 mm) depth for types 1, 2, and 12 (optional)		•	
56" (1,422 mm) depth for front-access design	•		•

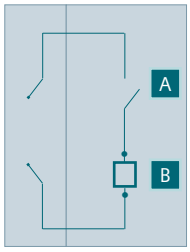
Single



Duplex



Single front access



Item	Description
A	600 A or 1,200 A interrupter switch
B	Fixed-mounted vacuum circuit breaker

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