NXPLUS C VACUUM CIRCUIT BREAKER

Medium-voltage **gas-insulated switchgear**

Up to 38 kV, 31.5 kA (17.5 kV), 150 kV BIL

usa.siemens.com/mvswitchgear

Description

Increased personnel safety, low-maintenance, compact, robust: NXPLUS C gas-insulated medium-voltage, metal-enclosed switchgear from Siemens provides a reliable solution, even under extreme conditions.

A unique, sealed-for-life, hermetically laser-welded, stainless steel pressure vessel with vacuum switching technology and a digital protection system makes NXPLUS C switchgear independent from most industrial contamination conditions and most extreme climatic conditions, resulting in very low maintenance and longer product life cycle. Additionally, the SF_6 insulation enables an extremely compact construction that helps to optimize space requirements in electrical rooms.

The benefit: lower installation cost, minimum operating costs, maximum performance, and high safety and reliability. NXPLUS C offers a flexible product range in panel designs for an efficient cost solution for each application.

Features and benefits:

- Inherently arc-resistant by design
- Vacuum circuit breaker with three-position disconnector with (ON/OFF/GROUND) for disconnecting and grounding through the circuit breaker
- Ground switch has fault rating of circuit breaker
- Installation and future extensions of existing switchgear with no requirement to handle the SF6 insulating gas
- ETL and NRTL listed
- Conforming to following standards:
  - IEC 62271-200
  - ANSI / IEEE C37.20.7 (upon request)
  - ANSI / IEEE C37.20.9
  - CSA C22.2 No. 31
- Hermetically laser-welded, stainless steel enclosure that is sealed for the life of the equipment
- Cable connections by use of elbow or T-plug connections
- Marine type approved American Bureau of Shipping (ABS) and Det Norske Veritas (DNV)

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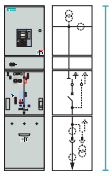
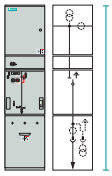
Technical ratings

Characteristics	Unit	Voltage class		
Rated maximum voltage	kV	15.0	27.0	38.0
Rated continuous current of busbar	A	2,500	2,500	2,500
Rated continuous current of feeder	A	2,500	1,250	1,250
Rated lightning impulse-withstand voltage	kV peak	95	125	150
Power frequency-withstand voltage (one minute)	kV rms	36	50	70
Frequency	Hz	60	60	60
Short-circuit interrupting current (maximum)	kA	31.5	25	25
Short-time withstand current, 3 seconds (maximum)	kA	31.5	25	25
Short-circuit making current (close and latch) (maximum)	kA peak	82	65	65
Peak-withstand current (maximum)	kA peak	82	65	65

Panel basic versions 630 A up to 2,500 A; dimensions in inches (mm)

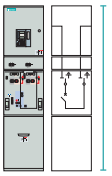


Circuit breaker panel
630 A up to 2,500 A

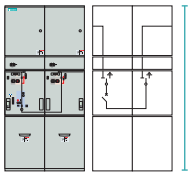


Disconnector panel
630 A up to 2,500 A

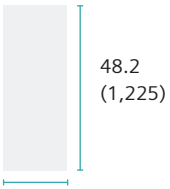
Dummy section



Bus tie (one section)
630 A up to 2,500 A
disconnector before or optionally before and after circuit breaker



Bus tie (two sections)
630 A up to 2,500 A
disconnector before or optionally before and after circuit breaker



Top view
17.7 (450), 23.6 (600), or 35.4 (900)

*Optional height 112.2" (2,850 mm) with taller 45.7" (1,161 mm) low-voltage compartment

- Single-pole, silicon-insulated, shielded busbar in plug-in and bolted design
- Visible disconnect via viewing system compliant to National Electric Code (NEC) and Canadian Standards Association (CSA)
- Front-mounted voltage indicators; no access to medium voltage or hotstick required
- Front cable access; no rear aisle required
- Bottom cable entry
- Optional fused voltage transformers
- Taller low-voltage compartment available as an option
- Trained and certified local personnel in U.S. and Canada available for start-up, commissioning, and maintenance.

Intertek 5022522 — Conforms to STD: IEEE STD C37.20.9

Intertek 5022522 — Certified to STD: CSA STD C22.2 No. 31

Legal Manufacturer

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