

Indoor Air Insulated Switchgear for Medium Voltage Power Distribution

A global product with full
IEC and UL certification



E+H ENGINEERING GROUP

Standards

IEC 62271-1	High voltage switchgear and control gear part 1: Common specifications
IEC 62271-100	High voltage switchgear and control gear part 100: Alternating current circuit breakers
IEC 62271-200	High voltage switchgear and control gear Part 200: Metal- enclosed factory built switchgear and control gear for rated voltages above 1kV up to and including 52kV
IEEE C37.09	IEEE Standard test procedure for Ac High-voltage circuit breakers rated on a symmetrical current basis.
IEEE C37.20.2	IEEE standard for Metal-clad Switchgear
ANSI C37.54	Indoor alternating current high-voltage circuit breakers applied as removable elements in Metal enclosed Switchgear - Conformance test procedures
CSA C22.2 No.31	Switchgear assemblies

IEC Standards



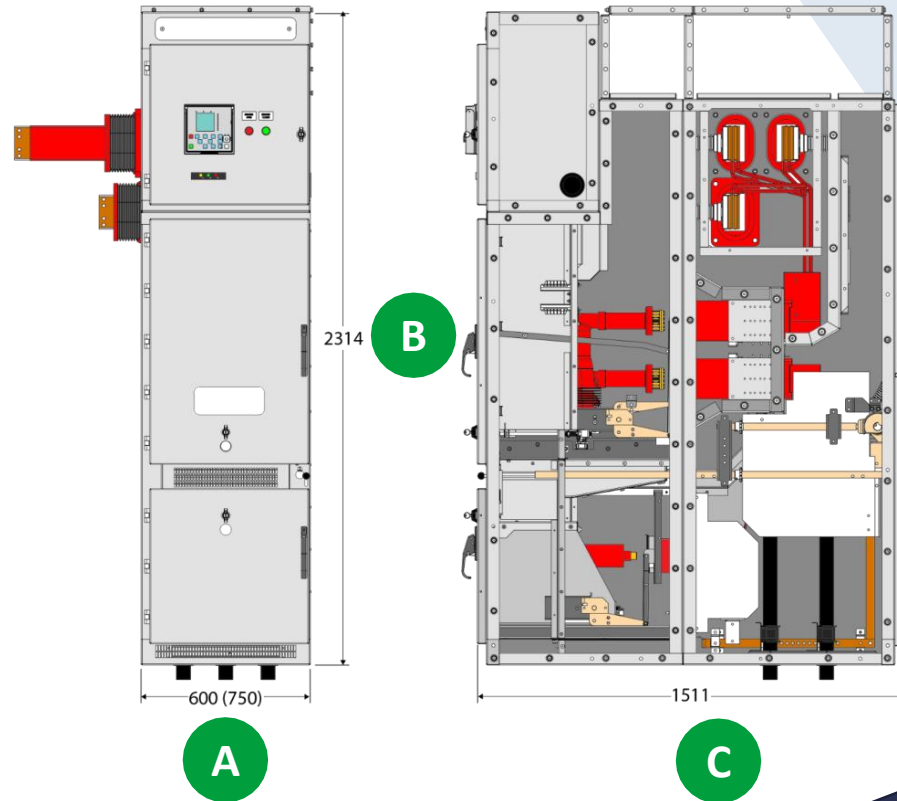
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12kV



Dimensions

Height B (mm)	2334
Width A (mm)	600 - 750
Depth C (mm)	1511
Weight (Approx Kg)	800-1200



Technical Details

Item	Unit	Value
Rated Voltage	kV	12
Rated Frequency	Hz	50/60
Rated Power Frequency (60s)	kV	28
Rated Lighting Impulse Withstand Voltage (Peak)	kV	75
Rated Current	A	630 1250 2000
Rated Short-time Withstand Current (3s)	kA	31.5
Rated Peak Withstand Current (Peak)	kV	82
Degree of Protections	kV	IP4X, Nema 1 indoor construction

Technical Details

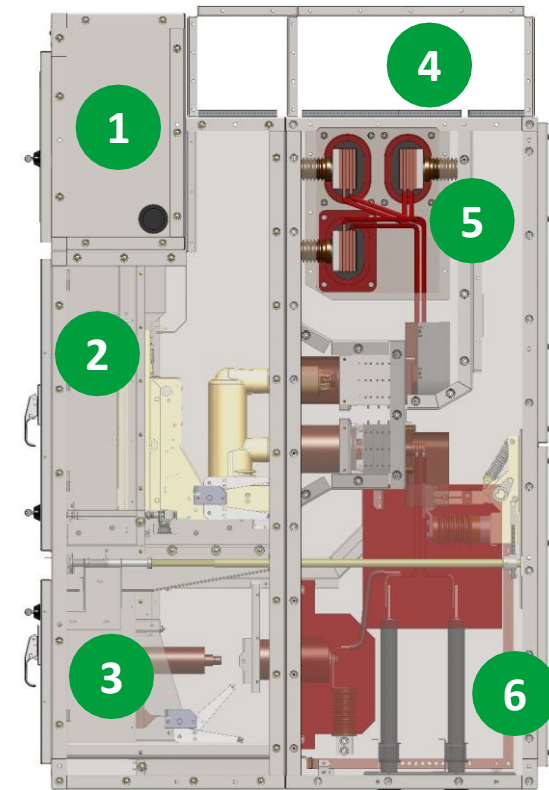
Ambient air temperature	°C
Maximum	+40
Maximum 24h average	+35
Minimum 24h average	-5
Minimum recommended	+5
Altitude above sea level	Meters (m)
Maximum	1000
Conditions of humidity	%
Average Value of relative humidity (24h)	> 95
Average Value of relative humidity (1 month)	> 90

Pollution - The ambient air must not be significantly Polluted by dust, smoke, corrosive and/or flammable gases, vapours or salt

Compartments

The panel is divided into six independent compartments:

1. Low voltage control compartment
2. Vacuum circuit breaker compartment
3. Voltage transformer compartment
4. Plenum assembly
5. Main busbar compartment
6. Cable compartment



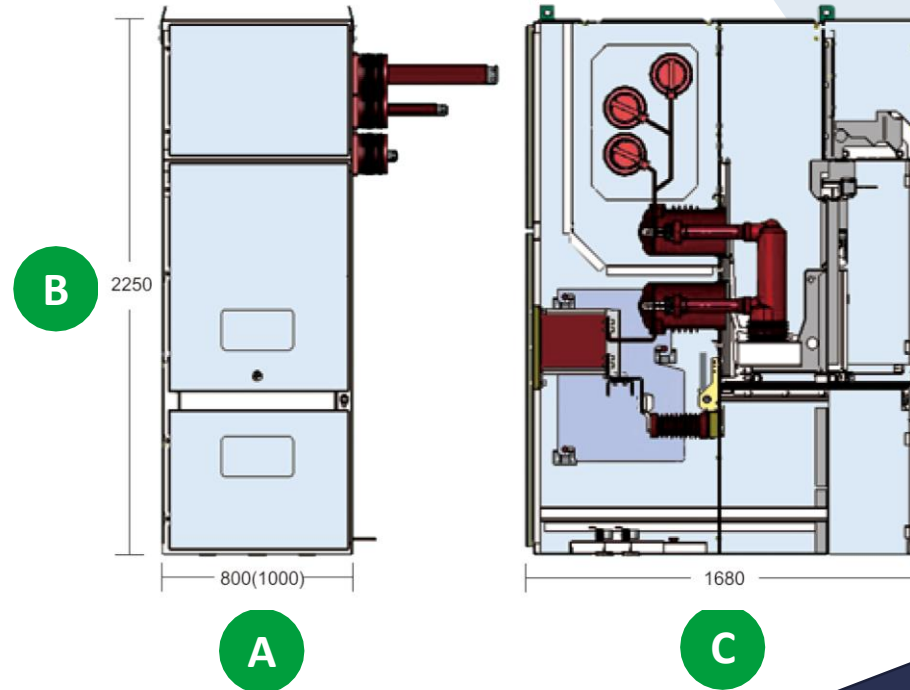
24kV



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Dimensions

Height B (mm)	2250
Width A (mm)	800 - 1000
Depth C (mm)	1680
Weight (Approx Kg)	800-1200



Technical Details

Item	Unit	Value
Rated Voltage	kV	24
Rated Frequency	Hz	50/60
Rated Power Frequency (60s)	kV	50
Rated Lighting Impluse Withstand Voltage (Peak)	kV	125
Rated Current	A	630/1250
Rated Short-time Withstand Current (3s)	kA	31.5
Rated Peak Withstand Current (Peak)	kV	80
Degree of Protections	kV	IP2X, IP4X

Technical Details

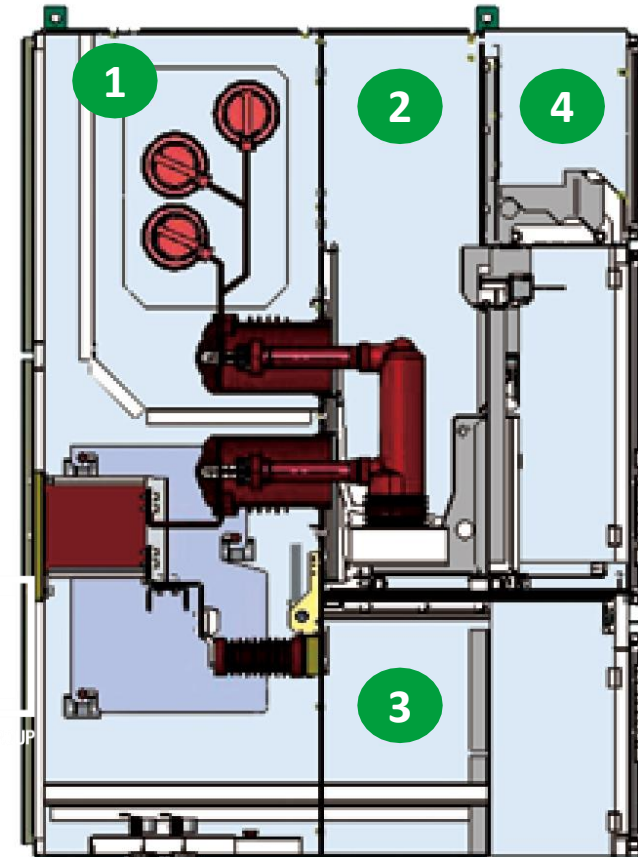
Ambient air temperature	°C
Maximum	+40
Maximum 24h average	+35
Minimum 24h average	-5
Minimum recommended	+5
Altitude above sea level	Meters (m)
Maximum	1000
Conditions of humidity	%
Average Value of relative humidity (24h)	> 95
Average Value of relative humidity (1 month)	> 90

Pollution - The ambient air must not be significantly Polluted by dust, smoke, corrosive and/or flammable gases, vapours or salt

Compartments

The panel is divided into six independent compartments:

1. Busbar Compartment
2. Circuit Breaker Compartment
3. Cable Compartment
4. Low Voltage Compartment



UL Standards



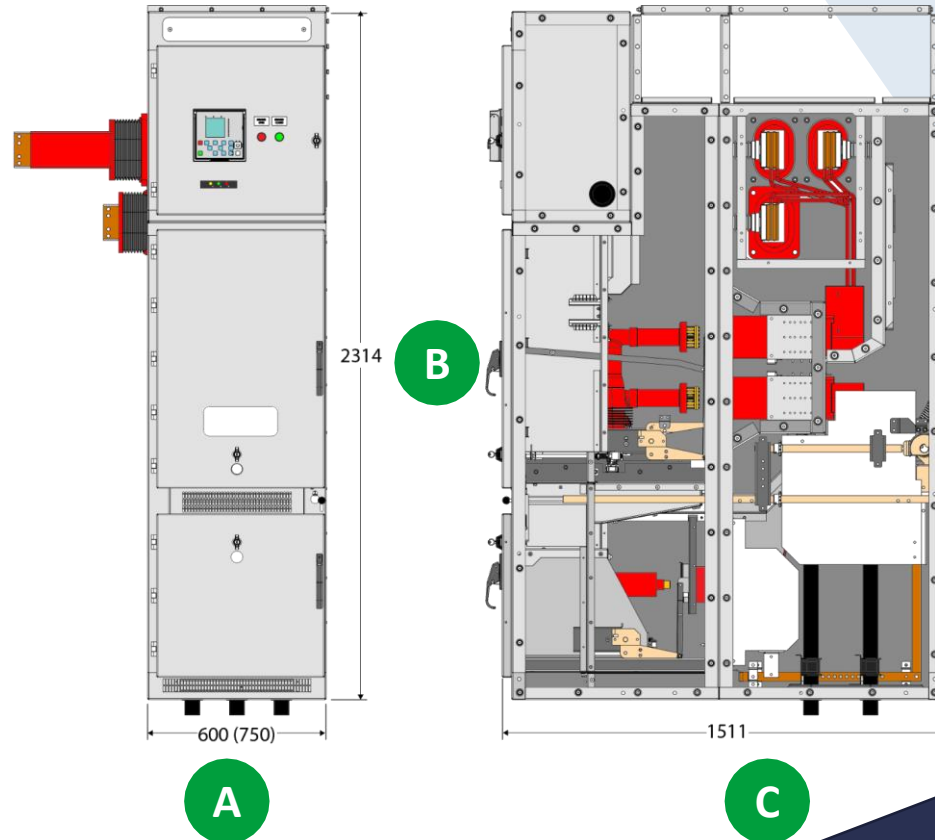
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15kV



Dimensions

Height B (mm)	2314
Width A (mm)	600 - 750
Depth C (mm)	1511
Weight (Approx Kg)	800-1200



Technical Details

Item	Unit	Value
Rated Voltage	kV	15
Rated Frequency	Hz	50/60
Rated Power Frequency (60s)	kV	36
Rated Lighting Impluse Withstand Voltage (Peak)	kV	95
Rated Current	A	1200 2000
Rated Short-time Withstand Current (3s)	kA	31.5
Rated Peak Withstand Current (Peak)	kV	82
Degree of Protections	kV	IP4X, Nema 1 indoor construction

Technical Details

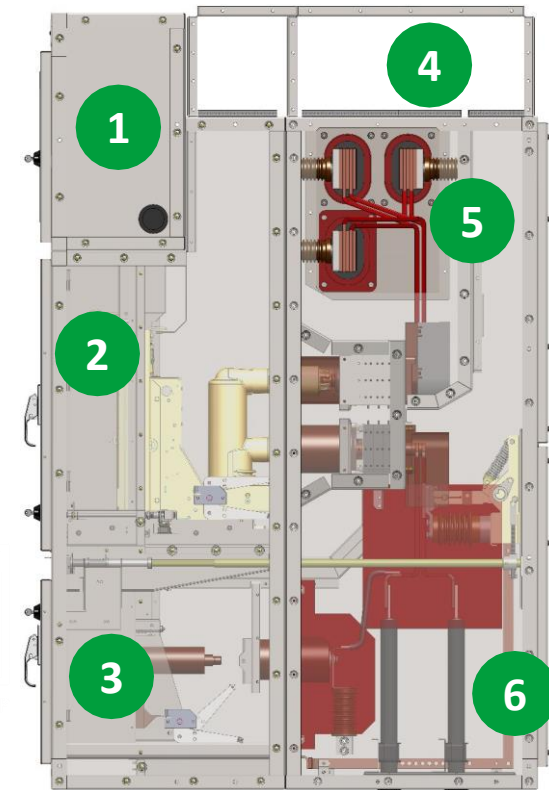
Ambient air temperature	°C
Maximum	+40
Maximum 24h average	+35
Minimum 24h average	-5
Minimum recommended	+5
Altitude above sea level	Meters (m)
Maximum	1000
Conditions of humidity	%
Average Value of relative humidity (24h)	> 95
Average Value of relative humidity (1 month)	> 90

Pollution - The ambient air must not be significantly Polluted by dust, smoke, corrosive and/or flammable gases, vapours or salt

Compartments

The panel is divided into six independent compartments:

1. Low voltage control compartment
2. Vacuum circuit breaker compartment
3. Voltage transformer compartment
4. Plenum assembly
5. Main busbar compartment
6. Cable compartment





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