# Metal Clad Switchgears
# Double Busbars

## SNC D Series

SNC.D 12 | SNC.D 24 | SNC.D 36

Switching Life to Infinity

aktif ELEKTROTEKNİK

# Double Busbars Switchgears
## SNC.DB Series

SNC Series Dobule Busbar Metal Clad Switchgears are switching and control switchgears manufactured up to 36 kV, 2500 A, 40 kA.

SNC Series Dobule Busbar Metal Clad Switchgears are manufactured in compliance with type tested design successfully passed the electrical and mechanical tests according to IEC 62271-200 standard in the international accredited laboratories of Europe.

SNC.DB Series Metal-Clad Switchgears are manufactured in three types:

- **SNC-0.DB** : Fixed Type Circuit Breaker
- **SNC-1.DB** : Withdrawable Type Circuit Breaker
- **SNC-2.DB** : Withdrawable Circuit Breaker and Withdrawable Voltage Transformer

### Structure
- Features a structure with 5/6 segregated compartments in compliance with the IEC 62271-200 standard.
- Provides the capability to access the cable compartments from both the front and rear of the switchgear.
- Reliable power continuity can be supplied through a dual supply system.

### Technical Features
- Protection class is IP4X (doors are closed), IP3X (between compartments)
- Proven reliability with unique design
- Special manufacturing option against corrosion for tropical conditions
- Fast and easy service with withdrawable VT (SNC-2.DB only)
- Withdrawable type Circuit Breaker (SNC-1.DB and SNC-2.DB)
- Minimum area thanks to compact and small design

| Service Conditions | | |
|---|---|---|
| Application Area | | Indoor |
| Altitude | | 1000 m |
| Ambient Temperature | Min. | -5°C |
| | Max. | 40°C |
| | Average period of 24h | 35°C |
| Humidity | Max. (period of 24h) | 95% |
| | Max. (period of one month) | 90% |
| Ambient Pollution | | Light |

### Optimum Operational Safety
- Personnel safety is at the highest level with AFLR class internal arc fault protection
- Uninterrupted energy management is ensured with LSC-2B (Loss of Service Continuity) classification
- Full isolation between compartments is maintained with PM (Partition Class) classification
- Equipped with comprehensive interlock systems to prevent erroneous operations
- Features a special hinged door design that enhances safety during operation
- Optimum reliability thanks to 3 mm sheet steel construction

### Color
- RAL 9003 for front cover
- RAL 7015 for side cover

### Application Areas
- Power Plants Stations
- Automobile Industry
- Power Supply Companies
- Transmission and Distribution
- Transformer Substations
- Heavy Industry such as, Steel Industry, Oil & Gas Industry, Cement Industry

### Standards
- IEC 62271-1
- IEC 62271-200
- IEC 62271-100
- IEC 62271-102
- IEC 61869-2
- IEC 61869-3
- IEC 60273
- IEC 60051
- IEC 60255

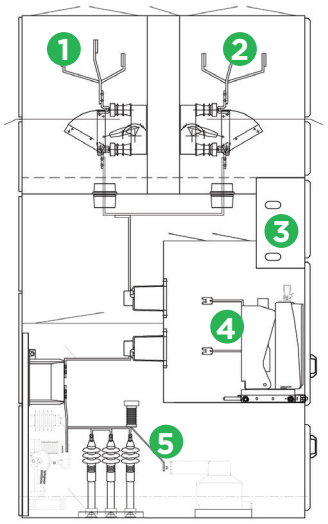
## Technical Specifications

| Descriptions | | | SNC.D 12 | SNC.D 24 | SNC.D 36 |
|---|---|---|---|---|---|
| Rated voltage (rms) | | kV | 13.8 | 24 | 36 |
| Power frequency withstand voltage 50 Hz, 1 min (rms) between phases and phase-ground | | kV | 32 | 50 | 70 |
| Lightning impulse withstand voltage 1.2/50 ms (peak) between phases and phase - ground | | kV | 75/85 | 125 | 170 |
| Rated frequency | | Hz | 50-60 | | |
| Rated (rms) current | Busbars | A | 630 .. 2500 | 630 .. 2500 | 630 .. 2500 |
| | CB & Disconnector | A | 630 .. 2500 | 630 .. 2500 | 630 .. 2500 |
| | Load Break Switch | A | 630 .. 2500 | 630 .. 2500 | 630 .. 2500 |
| | Vacuum Contactor | A | 400 | 400 | - |
| | (for capacitive load) | A | 250 | 200 | - |
| Rated short time withstand (rms) current | CB & Disconnector | kA | 16 .. 40 | 16 .. 31.5 | 16 .. 31.5 |
| | Load Break Switch | kA | 16/20 | 16/20 | 16/20 |
| | Vacuum Contactor | kA | 8 | 8 | - |
| Short circuit withstand time | | s | 3 | 3 | 3 |
| Rated short time withstand (peak) current | CB & Disconnector | kA | 40 .. 100 | 40 .. 80 | 40 .. 80 |
| | Load Break Switch | kA | 40/50 | 40/50 | 40/50 |
| | Vacuum Contactor | kA | 20 | 20 | - |
| Internal arc fault | Current | kA | 40 | 31.5 | 31.5 |
| | Duration | s | 1 | 1 | 1 |
| Earthing switch | Rated short time withstand current | kA | 16 .. 40 | 16 .. 31.5 | 16 .. 31.5 |
| | Short circuit withstand time | s | 3 | 3 | 3 |

## Dimensions

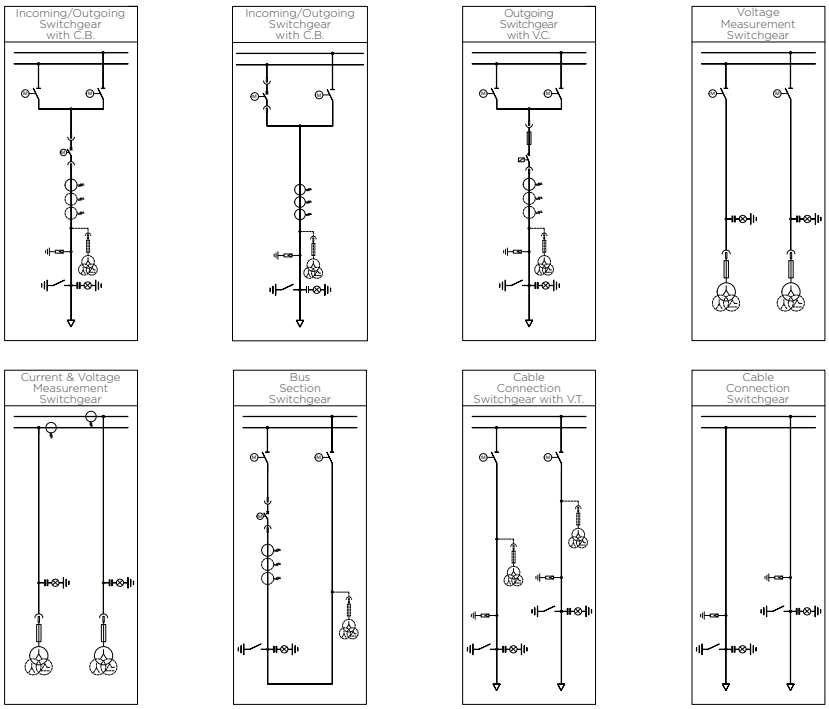
| Type | Voltage (kV) | Current | Width (mm) | Depth (mm) | Height (mm) | Height (with pressure relief channel) |
|---|---|---|---|---|---|---|
| SNC.DB 12 | 12 | ≤ 1250 A | 800 | 1750 | 3100 | 3550 |
| | | 1600 .. 2500 A | 1000 | | | |
| SNC.DB 24 | 24 | ≤ 1250 A | 1000 | 2200 | 3300 | 3750 |
| | | 1600 .. 2500 A | 1100 | | | |
| SNC.DB 36 | 36 | ≤ 1250 A | 1400 | 3000 | 4200 | 4650 |
| | | 1600 .. 2500 A | 1500 | | | |

## Typical Feeder Unit




1 - 1st Busbar Compartment
2 - 2nd Busbar Compartment
3 - LV Compartment
4 - Circuit Breaker Compartment
5 - Cable Compartment

## Single Line Diagram of Typical Units (SNC-1.DB)



# Double Busbars Switchgears

## SNC.DD Series-Duplex Design

The SNC.DD Series Dublex Double Busbar switchgears are specialized solutions designed to provide maximum power in confined spaces by combining two separate switching modules in a back-to-back configuration. This design elevates operational flexibility to the highest level with access from both sides and independent busbar systems.

SNC.DD Series Metal Clad Switchgears are manufacturing in three types:

- **SNC-0.DD** : Fixed Type Circuit Breakers
- **SNC-1.DD** : Withdrawable Type Circuit Breakers
- **SNC-2.DD** : Withdrawable Circuit Breakers and Withdrawable Voltage Transformers

### Structure

- Space is optimized by placing two different functional units within a shared frame
- Features a structure with 5/6 segregated compartments in compliance with the IEC 62271-200 standard
- Provides the capability to access the cable compartments from both the front and the rear of the switchgear
- Reliable power continuity can be supplied through a dual supply system

### Technical Features

- Required space in transformer substations is minimized thanks to its compact and small design
- Offers high reliability tested in international accredited laboratories with its unique design
- Provides quick service capability with a withdrawable type Voltage Transformer (VT) available in the SNC-2.DD model
- Utilization of withdrawable type SF6 or Vacuum Circuit Breakers is possible for SNC-1.DD and SNC-2.DD models
- Special manufacturing options against corrosion for tropical conditions are available

### Optimum Operational Safety

- Personnel safety is at the highest level with AFLR class internal arc fault protection
- Uninterrupted energy management is ensured with LSC-2B (Loss of Service Continuity) classification
- Full isolation between compartments is maintained with PM (Partition Class) classification
- Equipped with comprehensive interlock systems to prevent erroneous operations.
- Features a special hinged door design that enhances safety during operation
- Optimum reliability thanks to 3 mm sheet steel construction

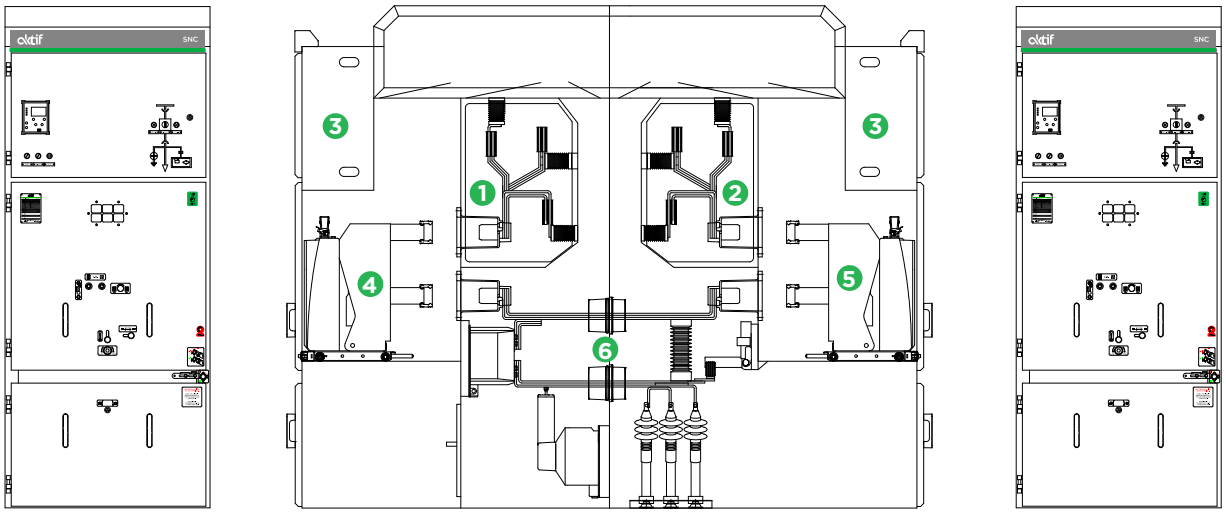
### Standards

- IEC 62271-1
- IEC 62271-200
- IEC 62271-100
- IEC 62271-102
- IEC 61869-2
- IEC 61869-3
- IEC 60273
- IEC 60051
- IEC 60255

## Dimensions

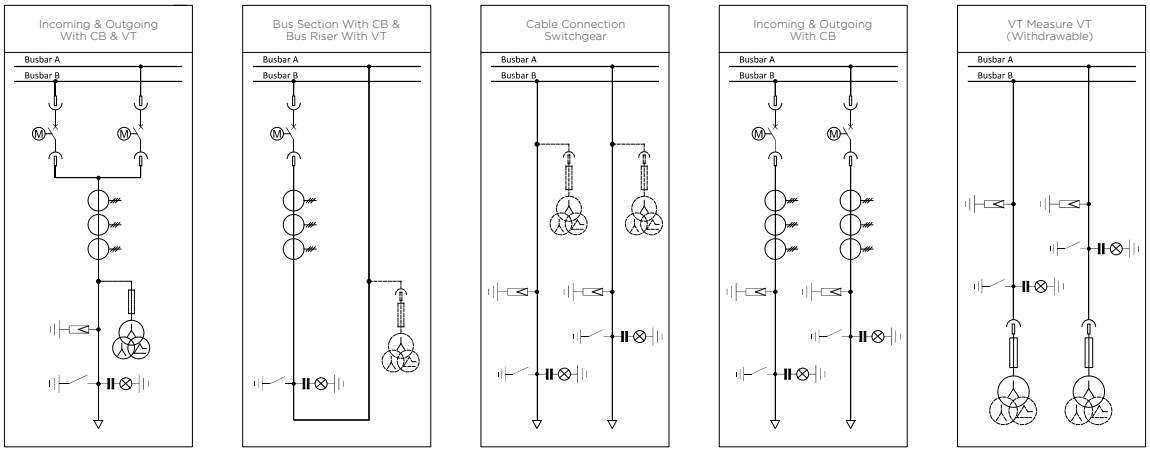
| Type | Voltage | Current | Width (mm) | Depth (mm) | Height (mm) (with pressure relief channel) |
|---|---|---|---|---|---|
| SNC12.DD | 13.8 kV | 630/1250 A | 650 | 3000 | 2445 |
| | | 1600/2000 A | 800 | 3000 | 2445 |
| | | 2500/4000 A | 1000 | 3000 | 2445 |
| SNC24.DD | 24 kV | 630/1250 A | 800 | 3300 | 2570 |
| | | 1600 .. 3150 A | 1000 | 3300 | 2570 |
| SNC36.DD | 36 kV | 630 .. 2500 A | 1100 | 4500 | 2820 |

## Typical Feeder Unit




1 - 1st Busbar Compartment
2 - 2nd Busbar Compartment
3 - LV Compartment
4 - Circuit Breaker Compartment
5 - Circuit Breaker Compartment
6 - Cable Compartment

## Single Line Diagram of Typical Units



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