

Metal Clad Switchgears



SNC Series

SNC 12 | SNC 24 | SNC 36

aktif

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SNC Series

SNC Series Metal Clad Switchgears are switching and control cubicles; manufactured up to 36 kV, 4000 A, 40 kA.

SNC series Metal Clad Switchgears are manufactured in compliance with type tested design successfully passed the electrical and mechanical tests according to IEC 62271-200 and seismic tests IEC62271-210, EN60068, IEEE693, GR-63 Core Zone4 standards in the international accredited laboratories of Europe and Aktif has ISO 9001, ISO 14001 and ISO 45001 quality certificates.

SNC series Metal Clad Switchgears are produced in 2 types:

- **SNC-1** withdrawable circuit breaker
- **SNC-2** withdrawable circuit breaker and withdrawable voltage transformer

Application Areas

- Power generation
- Transmission and distribution
- Transformer substations
- Heavy industry
- Rolling mills
- Pipelines
- Shipyards
- Emergency and backup power facilities
- Mining
- Transportation

Standards

- IEC 62271-1
- IEC 62271-200
- IEC 62271-100
- IEC 62271-102
- IEC 62271-105
- IEC 61869-2
- IEC 61869-3
- IEC 60273
- IEC 60051
- IEC 60255
- IEC62271-210
- EN60068
- IEEE693 -1
- GR-63-Core-Zone4



Advantages

- 4/5 segregated compartments
- Safety electrical and mechanical interlocks
- Withdrawable type SF6 or Vacuum circuit breaker
- Fast and easy service with withdrawable VT (SNC-2 only)
- Load break switch and vacuum contactor design
- Applicable in smaller areas compared to its competitors
- Proven reliability with unique design
- Easy and safe operation opportunity
- 3 mm steel sheet construction
- Continuity of earthing system
- Special production option against corrosion for tropical environment conditions
- 5 years warranty option

Technical Specifications

Descriptions		SNC 12	SNC 24	SNC 36
Rated voltage (rms)	kV	13.8	24	36
Power frequency withstand voltage 50 Hz, 1 mi (rms) between phases and phase ground	kV	13.8	50	70
Lightning impulse withstand voltage 1.2/50m s (peak) between phases and phase - ground	kV	75/85	125	170
Rated frequency	Hz	50-60		
Rated (rms) current of switchgears with;				
Busbars (with natural ventilation)	A	630 .. 3150	630 .. 3150	630 .. 2500
Fan (forced ventilation)	A	4000	-	-
Disconnecter (with natural ventilation)	A	630 .. 3150	630 .. 3150	630 .. 2500
Fan (forced ventilation)	A	4000	-	-
Load Break Switches	A	630 .. 1250	630 .. 1250	630 .. 1250
Vacum contactors (inductive switching)		400	800	-
Vacuum contactors (capacitive switching)	kA	250	200	-
Rated short time withstand (rms) current with				
CB and disconnecter	kA	16 .. 40	16 .. 31.5	16 .. 31.5
Load break switches	kA	16 .. 20	16 .. 20	16 .. 20
Vacuum contactor	kA	8	8	-
Rated short time withstand (peak) current with				
CB and disconnecter	kA	40 .. 100	40 .. 100	40 .. 80
Load break switches	kA	40 .. 50	40 .. 50	40 .. 50
Vacuum contactor	kA	20	20	-
Short circuit current withstand time	s	3	3	3
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
Switchgear structure as per the				
Loss of service continuity		LSC 2B		
Internal arc classification		AFLR		
Partition class		PM		
Protection class				
When doors are closed - standard		IP4X		
Between compartments		IP3X		
Color (Front Cover / Carcass)		RAL 9003 / 7015		
Standards complied		IEC 62271-200		
MV cable entry		From the Bottom		
LV cable entry		From the bottom / Overhead / On the side		

Voltage	Current	Width	Depth		Height
			SNC-1	SNC-2	
12 kV	630/1250 A	650 mm	1400 mm	1750 mm	2445 mm
	1600/2000 A	800 mm			
	2500/3150 A	1000 mm			
24 kV	630/1250 A	800 mm	1750 mm	1750 mm	2570 mm
	1600 .. 2500 A	1000 mm			
36 kV	630 .. 2500 A	1100 mm	2350 mm	2350 mm	2820 mm

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