CNC ELECTRIC

Medium Voltage Switchgear
HXGN15 Air-insulated RMU(Fixed Type)

- Rating: Rated voltage 3~12KV, rated current reach to 630A for load break switch and 125A for combined switchgear.
- Application:
  mainly applicable in urban power grid features and renovation project, industrial and mining enterprises. high-rise buildings and communal facilities .For power distribution, controlling and protection on electric equipment as the loop power supply unit or terminal equipment. It also can be installed in pre-loaded substation.
- Feature:
  Equipped with vacuum load switch and spring operating mechanism which can be operated by hand or electric. Grounding switch and insulating switch are equipped with hand operating mechanism .With small volume and high security.
- Standard: IEC60420

General

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Selection

H X G N 15A - 12 (F·R)

- (F·R) — Combined load break switch and fuse
- 12 — Rated voltage
- 15A — Design No.
- N — Indoor
- G — Fixed type
- X — Packaged type
- H — Loop

Operating conditions

1. Ambient air temperature: -15℃~+40℃.
   Daily average temperature:≤35℃.
2. Altitude: ≤1000m.
3. Relative humidity : Daily average≤95% ,daily averange of vapour pressure≤2.2kpa
   Monthly average≤90%, monthly averange of vapour pressure≤1.8kpa.
4. Earthquake intensity: ≤magnitude 8.
5. Applicable in the places without corrosive and flammable gas.

Note: Customized products are available.

Technical data

Sheet 1

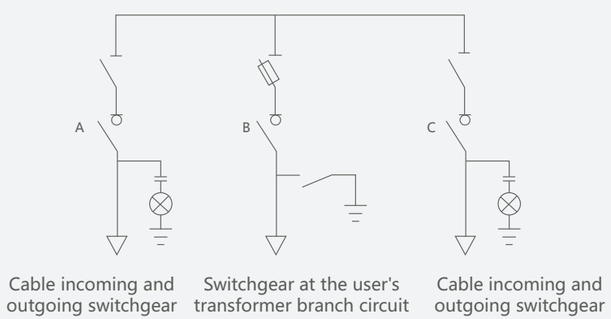
No.	Item		Unit	Data
1	Rated voltage		kV	12
2	Rated current	Load break switchgear	A	630
		Combined switchgear	A	125
3	Rated short-circuit breaking current		kA	31.5
4	Rated active on-load breaking current		A	630
5	Rated short-time withstands current		kA	20
6	Rated withstands current(Peak)		kA	50
7	Rated power frequency voltage withstands inter-phase,to earth and to the open contact		kV	42/48
8	Thundering withstands voltage inter-phase, to earth and to the open contact		kV	75/85
9	Mechanical life		times	10000
10	Rated take-over curent		A	3150
11	Operating mode		/	Manual or automatic
12	Protection level		/	IP2X

Loop power supply principle

The loop power supply is composed of three basic unit to separate any one of the failure line and ensure the continuous power supply through the other unit. The branch line for the user could separated and protect the transformer which could facilitate the maintenance.

The loop power supply could be expanded as per the user's requirements to form various protection plans.

Picture 1

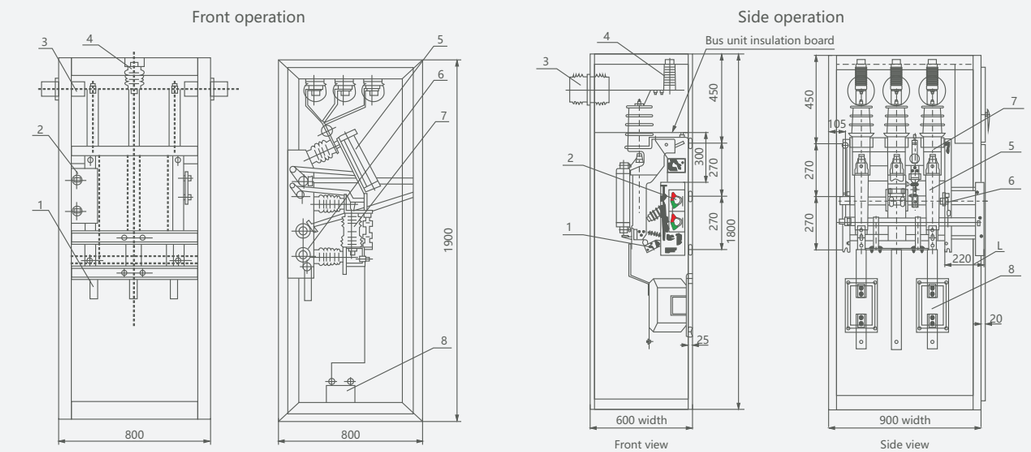


Feature

1. 8MF material adopted for the switchgear ,modular holes available with E=200.
2. Switch disconnector ,vacuum load breaker switch, earthing switch and the switchgear door reliably interlocked ,which could avoid miss operation.
3. Both manual and automatic operation are available.
4. There is leas sealed pin at the door of measurement chamber and meter chamber.
5. Prompt tripping could be realized to protect the equipments.
6. The design facilitate the operation at the front panel and the switchgear could be installed alongside the wall.
7. The switchgear is featured for its complete interlocking function: the load break switch could be operated to the making status when the switchgear door is closed and locked and the earthing switch to the making position.
   When the earthing switch is at making status, input the insulation clapboard to its position, the switchgear door then, could be operated.
8. The Vacuum arc-extinguishing chamber and fuse are reliably connected. So as the fuse & switchgear door and insulation clapboard & the switchgear door.

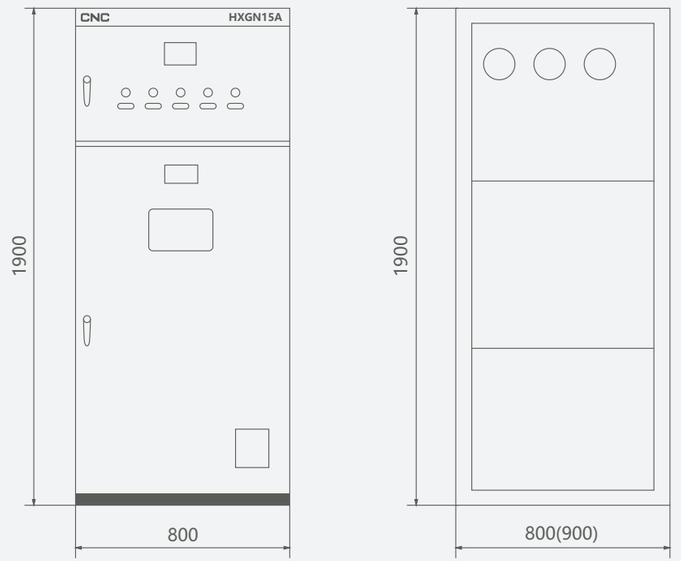
Medium Voltage Switchgear
HXGN15 Air-insulated RMU(Fixed Type)

Picture 2



Overall and mounting dimensions(mm)

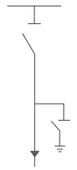
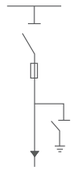
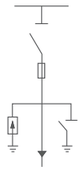
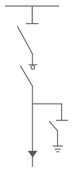
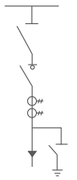
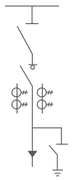
Picture 3

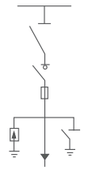
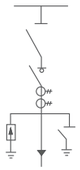
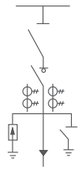
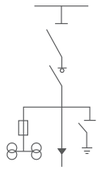
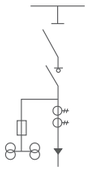
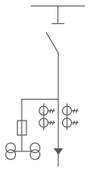


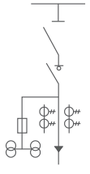
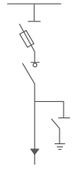
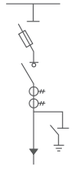
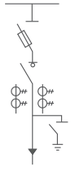
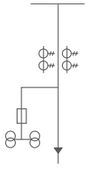
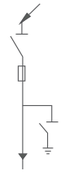
HXGN15 Air-insulated RMU(Fixed Type)

Main single line diagram

Sheet 2

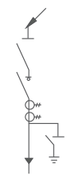
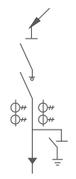
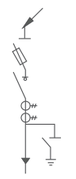
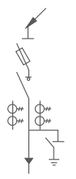
Program No.	01	02	03	04	05	06
Single line diagram						
Application	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder
Isolation/Load/Combined apparatus	GN□-12D	GN□-12D	GN□-12D	GN□-12D	GN□-12D	GN□-12D
Fuse	/	RN3	/	/	/	/
Current transformer	/	/	/	/	LZZBJ9	LZZBJ9
Surge arrester	/	HY5W	/	/	/	/

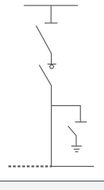
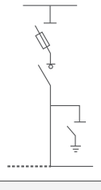
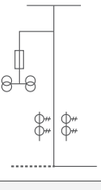
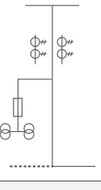
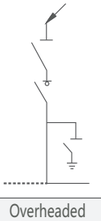
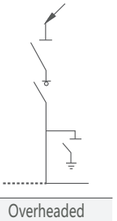
Program No.	07	08	09	10	11	12
Single line diagram						
Application	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder
Isolation/Load/Combined apparatus	FZN21-12D	FZN21-12D	FZN21-12D	FZN21-12D	FZN21-12D	FZN21
Fuse	/	/	/	RN2	RN2	RN2
Current transformer	/	LZZBJ9	LZZBJ9	/	LZZBJ9	LZZBJ9
Potential transformer	/	/	/	JDZ	JDZ	JDZ
Surge arrester	HY5W	HY5W	HY5W	/	/	/

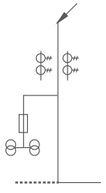
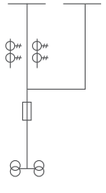
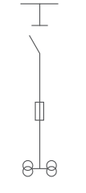
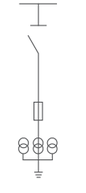
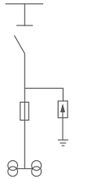
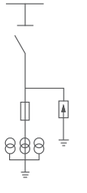
Program No.	13	14	15	16	17	18
Single line diagram						
Application	Metering cable incoming	Metering cable incoming	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Metering cable incoming	Overheaded incoming cable outgoing
Isolation/Load/Combined apparatus	FZN21-12D	FZN21-12D	FZN21-12D	FZN21-12D	/	GN□-12D
Fuse	RN2	S□LAJ	S□LAJ	S□LAJ	RN2	RN3
Current transformer	LZZBJ9	/	LZZBJ9	LZZBJ9	LZZBJ9	/

HXGN15 Air-insulated RMU(Fixed Type)

Continued Sheet 2

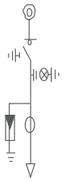
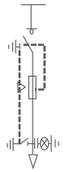
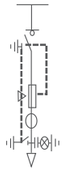
Program No.	19	20	21	22	23	24
Single line diagram						
Application	Overheaded incoming cable outgoing	Overheaded incoming cable outgoing	Overheaded incoming cable outgoing	Overheaded incoming cable outgoing	Overheaded incoming cable outgoing	Overheaded incoming cable outgoing
Isolation/Load/Combined apparatus	FZN21-12D	FZN21-12D	FZN21-12D	FZN21-12D	FZN21-12D	FZN21-12D
Fuse	/	/	/	S□LAJ	S□LAJ	S□LAJ
Current transformer	/	LZZBJ9	LZZBJ9	/	LZZBJ9	LZZBJ9

Program No.	25	26	27	28	29	30
Single line diagram						
Application	Communication	Communication	Measure and Communication	Measure and Communication	Overheaded incoming Communication	Overheaded incoming Communication
Isolation/Load/Combined apparatus	FZN21-12D	FZN21-12D	/	/	FZN21-12D	FZN21-12D
Fuse	/	S□LAJ	RN2	RN2	/	S□LAJ
Current transformer	/	/	LZZBJ9	LZZBJ9	/	LZZBJ9
Potential transformer	/	/	JDZ	JDZ	/	/

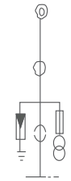
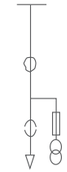
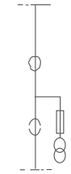
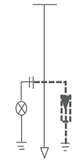
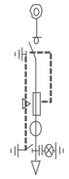
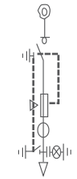
Program No.	31	32	33	34	35	36
Single line diagram						
Application	Overheaded incoming Communication	Measurement	Potential transformer	Potential transformer	Potential transformer	Potential transformer
Isolation/Load/Combined apparatus	/	/	GN□-12	GN□-12	GN□-12	GN□-12
Fuse	RN2	RN2	RN2	RN2	RN2	RN2
Current transformer	LZZBJ9	LZZBJ9	/	/	/	/
Potential transformer	JDZ	JDZ	JDZ	JDZJ	JDZJ	JDZJ
Surge arrester	/	/	/	/	HY5W	HY5W

Single line diagram

Sheet 2

Program No.	01	02	03	04	05	06	07	08
Single line diagram								
Application	Cable incoming	Left (right) communication	PT cable incoming	PT left (right) communication	Overheaded incoming cable incoming	Overheaded incoming left (right) communication	Cable outgoing	Cable outgoing
Overall and mounting dimensions (mm) (Width×Depth×Height)	375×960×1600	375×960×1600	500×960×1600	500×960×1600	375×960×1600	375×960×1600	375×960×1600	500×960×1600
Main electrical components — Type	QTY.							
FLN36-12D/630-20	1	1	1	1	1	1	/	/
FLN36-12D/125-31.5	/	/	/	/	/	/	1	1
RN2-0.05A	/	/	3	3	/	/	/	/
SDLDJ/SFLDJ/SKLDJ	/	/	/	/	/	/	3	3
LZZS-10Q LZZB9-10C LZZB-10	2 or 3	2 or 3	/	/	2 or 3	2 or 3	/	1 / 2 / 3
JDZX10-10A JDZ8-10	/	/	2 or 3	2 or 3	/	/	/	/
HY5WZI-17/45	/	(3)	/	/	/	/	/	/
DZN4-T1.2	1	1	1	1	1	1	1	1

Continued sheet 2

Program No.	09	10	11	12	13	14	15	16
Single line diagram								
Application	Metering cable incoming	Metering cable incoming	Measurement	Measurement	Cable incoming	Bus elevated	Overhead incoming cable outgoing	Overhead incoming cable outgoing
Overall and mounting dimensions (mm) (Width×Depth×Height)	500×960×1600	500×960×1600	375×960×1600	375×960×1600	375×960×1600	375×960×1600	375×960×1600	500×960×1600
Main electrical components — Type	QTY.							
FLN36-12D/630-20	/	/	/	/	/	/	/	/
FLN36-12D/125-31.5	/	/	/	/	/	/	1	1
RN2-0.05A	3	3	3	3	/	/	/	/
SDLDJ/SFLDJ/SKLDJ	/	/	/	/	/	/	3	3
LZZS-10Q LZZB9-10C LZZB-10	2 or 3	2 or 3	2 or 3	2 or 3	/	/	/	1 / 2 / 3
JDZX10-10A JDZ8-10	2 or 3	2 or 3	2 or 3	2 or 3	/	/	/	/
HY5WZI-17/45	3	/	/	/	(3)	/	/	/
DZN4-T1.2	1	/	/	/	1	/	1	1