



## Switchgear Panel

MV Switchgear Panel

MV Air-insulated Ring Main Unit (RMU)

LV Switchgear Panel

LV Control Signal Panel

## Sales References

# MV/LV Switchgear Panel

CHINT Electric MV/LV switchgear panels are widely adopted by Utility Users from Yemen, Myanmar, Tanzania, Ghana, Nigeria, Mongolia, etc.; Industrial End Users from USA, France, Finland, Australia, Vietnam, Algeria, Indonesia, Russia Kenya etc. like Chevron, Saint Gobain, VISY Paper and Engineering Companies from Australia, Romania, Myanmar, Vietnam, Mongolia, etc.



### Utility User

- Water Resources Utilization Department (WRUD) - Myanmar
- Volta River Authority (VRA) - Ghana
- Power Holding Company Of Nigeria (PHCN) - Nigeria
- Mongolia Energy Company - Mongolia
- Public Electricity Corporation (PEC) - Yemen
- Tanzania Electric Supply Company (TANESCO) - Tanzania
- Eesti Energia - Estonia

### Industrial End User

- Chevron - USA
- Saint Gobain - France
- VISY Paper - Australia
- Anping Cement Plant - Vietnam
- Invista - Shanghai Qingpu Project
- UPM - Kymmene Corp. Finland
- SINOPEC - Algeria Shengli Oilfield Engineering Project

※ Note: Contact us for more information.





# Metal Sheet Process

## 1. Metal Sheet Process

CHINT T&D has world level facilities for manufacturing of switchgears: flexible sheet metal processing production line, laser cutting production line, CNC bending machines, and industrial wastewater treatment recycling facilities and so on. The equipment level ranks at the forefront in the industry.

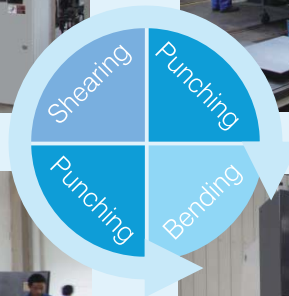


Metal Sheet Processing

▼ FMS-C3000-type metal sheet processing line



▼ SKYY31530C-type CNC turret pressure machine



▲ M-2048LT CNC multi-station pressure



▲ PPEB220-30-5 CNC bending machine

# Production Process

## 2. Production Process



Assembly

Wiring



Storage



Inspection



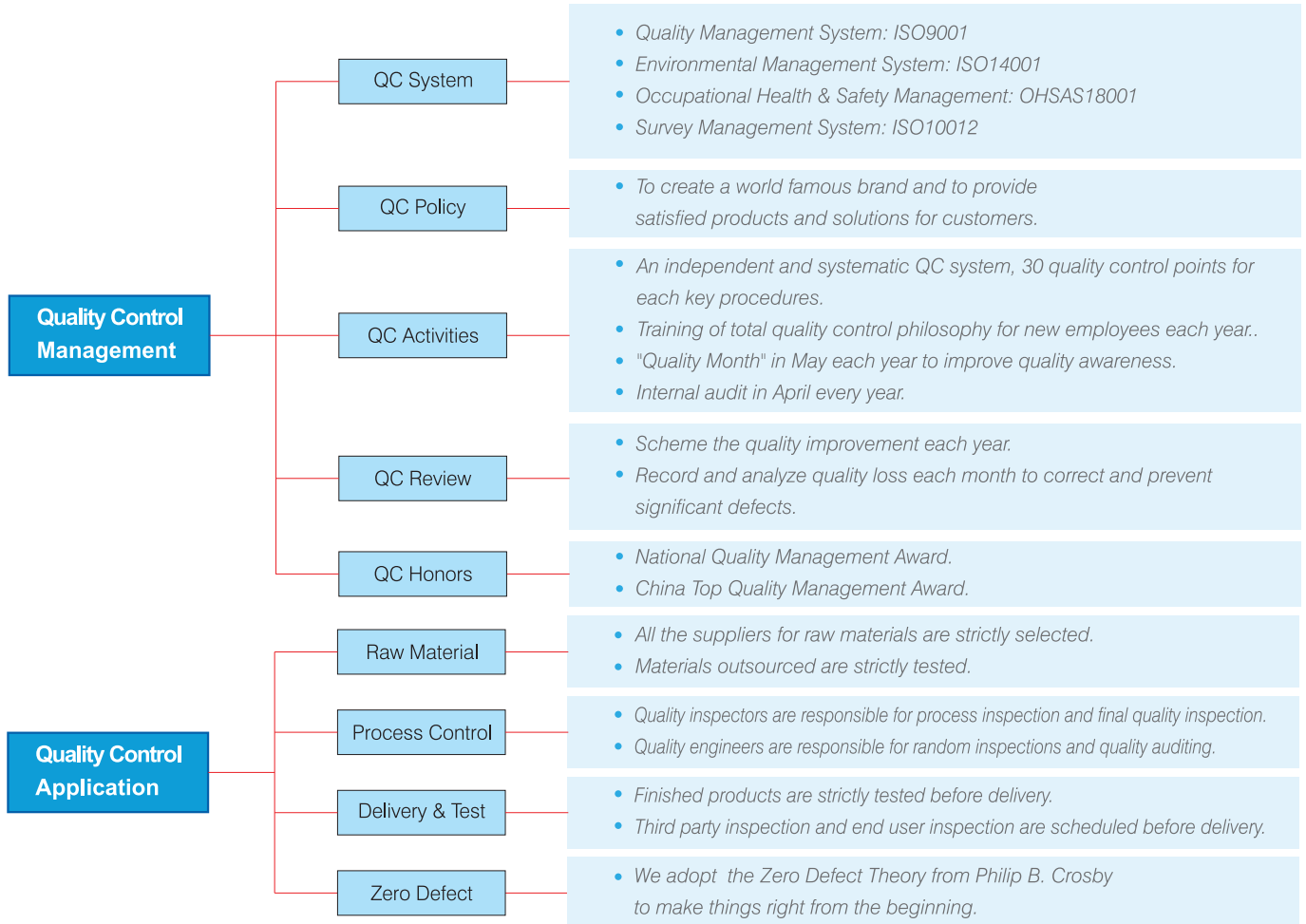
Finished products





## 3. Quality Management, Certification and Sales Service

### 3.1 Quality Management



### QC System Certification



# Test Report and Certification

## Quality Management Procedure



Lightning impulse testing platform ▲



▲ On-site test



▲ Remote monitoring

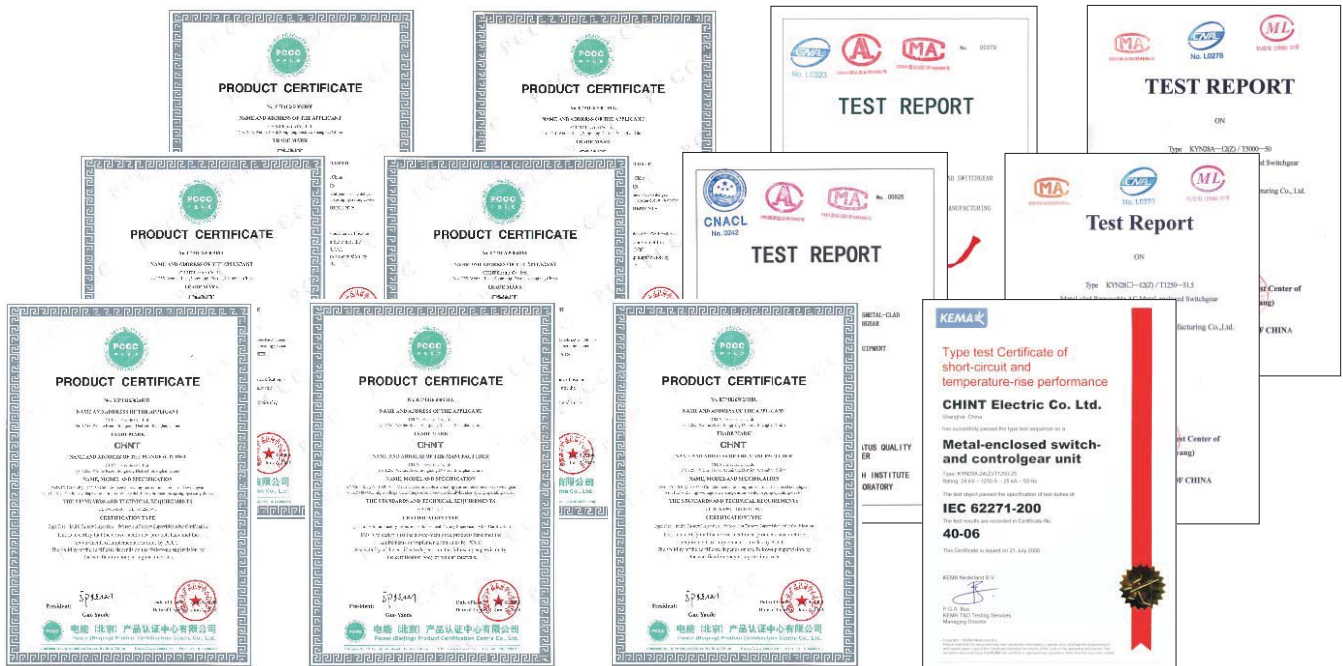


Power frequency withstand voltage testing platform ▲

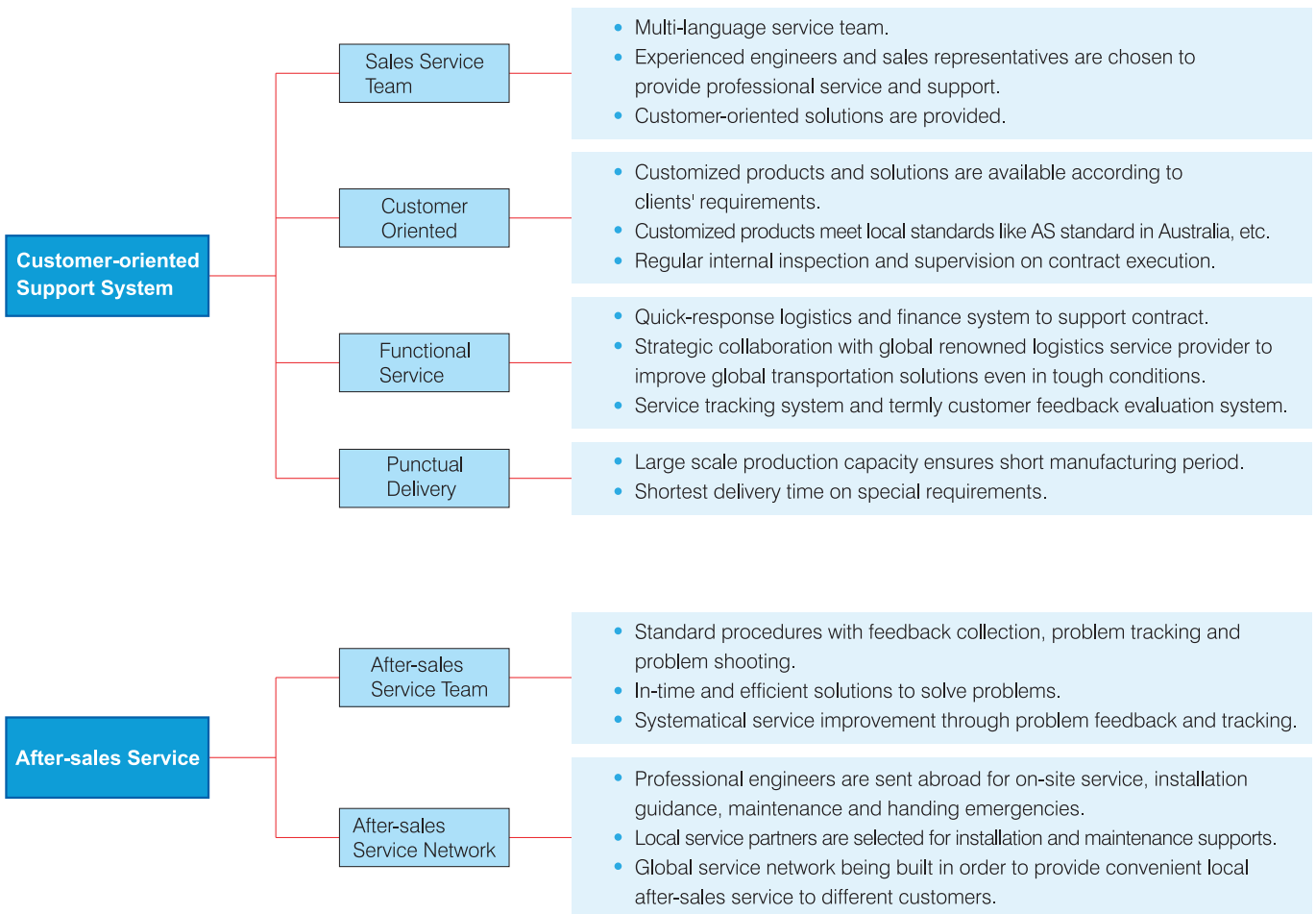
▲ Temperature rise test

## 3.2 Certification

CHINT T&D's products are evaluated by STL (Short-Circuit Testing Liaison) laboratories such as KEMA, CESI and other international certification like PCT (GOST), TUV; and tested by CNAS (ilac member in China) laboratories such as CTQC, SEPTDTD, etc.



## 3.3 Sales Service





# Test Report and Certification





# KYN28A-24(Z)

## 4. Typical Product

MV (12kV~40.5kV) Metalclad Switchgear Panel, Withdrawable Type

## KYN28A-24 (Z) Metalclad Switchgear Panel, Withdrawable Type



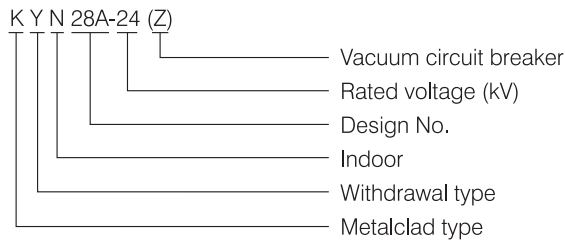
### 1. General

1.1 Ratings: system voltage 24kV, rated current up to 1250A, AC 50/60Hz.

1.2 Application: applicable for power receiving and distribution of power plant and substations for control, protection and measurement.

1.3 Standards: IEC 62271-200

### 2. Type Designation



### 3. Working Condition

3.1 Ambient air temperature:  $-15^{\circ}\text{C} \sim +40^{\circ}\text{C}$  ( $-25^{\circ}\text{C} \sim +45^{\circ}\text{C}$  available as customized products)

3.2 Altitude:  $\leq 1000\text{m}$

3.3 Relative Humidity: Daily average  $\leq 95\%$   
Monthly average  $\leq 90\%$

3.4 Earthquake intensity:  $\leq$  magnitude 8

3.5 Applicable in the places without corrosive or flammable gas and steam pollution.

※ Note: Customized products are available.

### 4. Main Technical Parameter

Item	Unit	Data
		CB fitted
		NV1-24
Rated voltage	kV	24
1 min power frequency withstand voltage	kV	(50)65
Rated impulse withstand voltage (peak)	kV	125
Rated frequency	Hz	50(60)
Rated current	A	630 1250 1600 2000 2500 3150
Rated current of branch bus	A	630 1250 1600 2000 2500
Rated short time withstand current	kA	16 20 25 31.5
Rated peak withstand current	kA	40 50 63 80
Rated short circuit continuous time	s	4
Protection level		Shell: IP4X, IP2X when CPT and CB door are open
Weight	kg	800,1000(rated current $\geq 1600\text{A}$ )

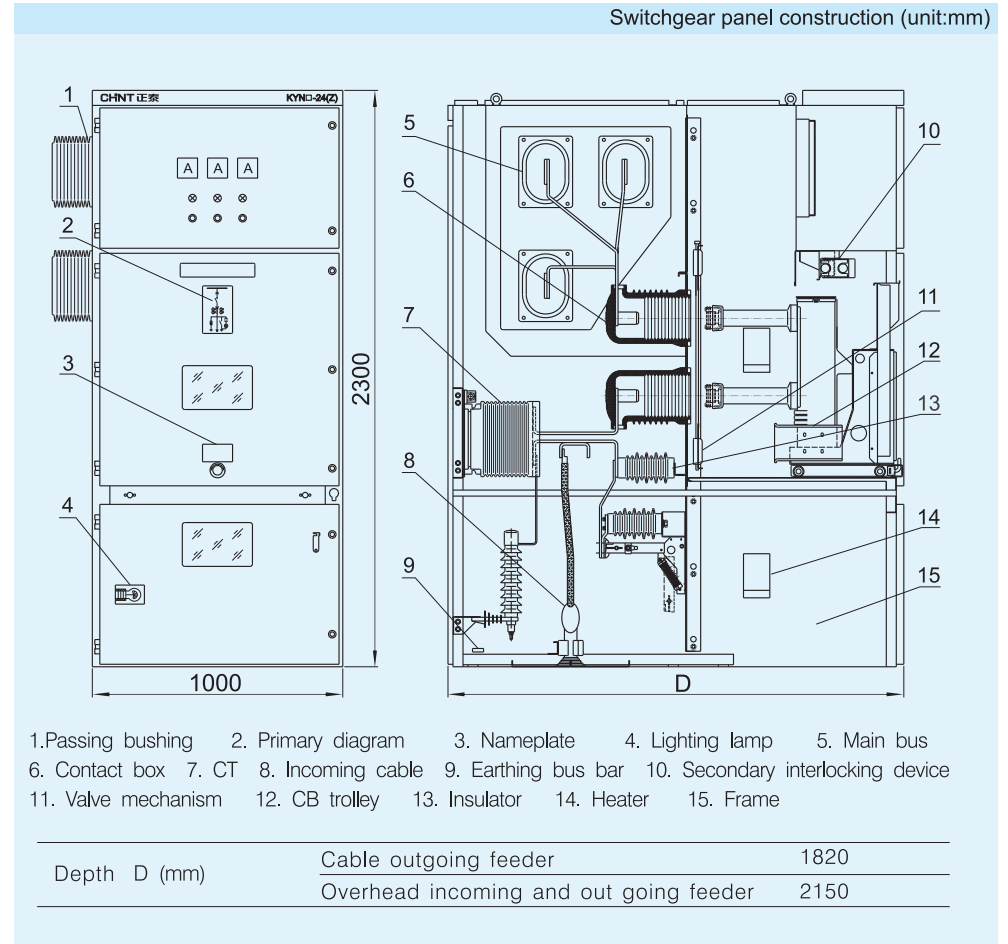
# KYN28A-24(Z)

## 5. Construction

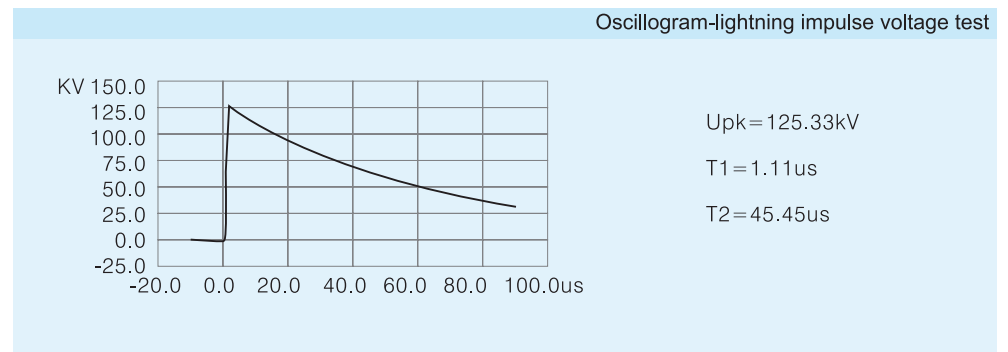
### 5.1 Compact Design

The switchgear is featured for its outstanding insulation level in its compact design with no necessity of the compound insulation and inter-phase clapboard.

### 5.2 Reliable structure and easy installation



### 5.3 Anti-lightning impulse capability





# KYN28A-24(Z)

## 5.4 Trolley

The frame of trolley adopts thin steel plate processed by CNC machine tool. The trolley co-ordinates insulatively with the switchgear so as to make the mechanical irterlock safe and reliable. There are CB trolley, PT trolley and seperating trolley as per the application. Trolleys with the same specifications are inter-changeable. In the switchgear, the trolley could be locked at three positions of breaking, testing and operating to ensure a reliable interlock. The trolley is featured by compactness, which is convenient for check and maintenance.



Variety of trolleies



NV1-24 Circuit breaker with trolley

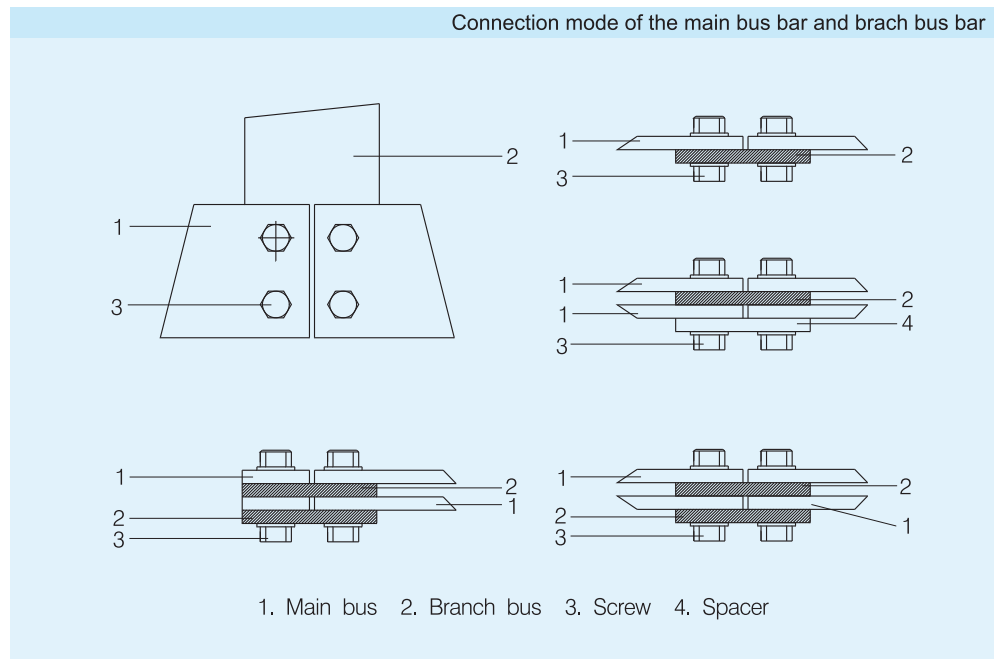
Isolation trolley

Voltage transformer with trolley

## 5.5 Bus Separating

Two bus bars' connection could be applied under with trolley big current. The branch bus is connected to the static contact box and main bus without other supporters. Bus of the neighboring switchgear is fixed by the bush which could separate the failure arc from spreading.

Connection mode of the main bus bar and brach bus bar



1. Main bus 2. Branch bus 3. Screw 4. Spacer

# KYN28A-24(Z)

## 6. Single Line Diagram (Unit:mm)

Program No.	001	002	003	004
Single line diagram				
Switchgear Dimension (Width×depth×Height)	1000X1820X2300	1000X1820X2300	1000X1820X2300	1000X1820X2300
Rated current (A)	630~3150A			
Main electrical components				
VCB (NV1-24)	1	1	1	1
CT LZB9-24	2~3	2~3	2~3	2~3
PT				
High-voltage fuse				
Earthing switch			1	1
Surge arrester		3	3	
Application	Receiving, Feeding	Receiving, Feeding	Receiving, Feeding	Receiving, Feeding
Note				

	005	006	007	008
Single line diagram				
Switchgear Dimension (Width×depth×Height)	1000X1820X2300	1000X1820X2300	1000X1820X2300	1000X1820X2300
Rated current (A)	630~3150A			
Main electrical components				
VCB (NV1-24)	1	1	1	
CT LZB9-24	3	3	3	
PT	1			
High-voltage fuse	2			
Earthing switch			1	
Surge arrester	3	3	3	
Application	Receiving, Feeding	Receiving, Feeding	Receiving, Feeding	Disconnecting
Note				

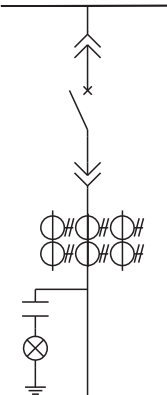
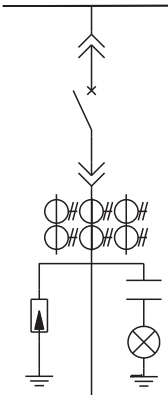
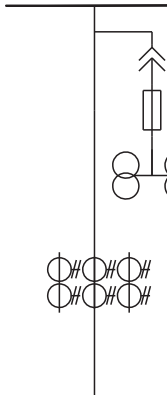
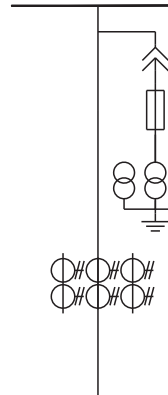


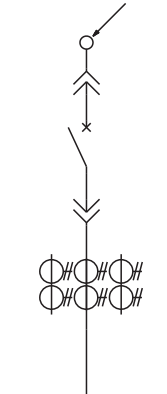
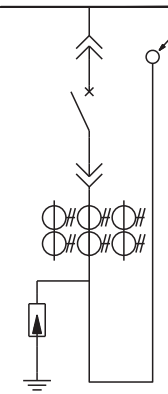
# KYN28A-24(Z)

Program No.	009	010	011	012
Single line diagram				
Switchgear Dimension (Width×depth×Height)	1000X1820X2300	1000X1820X2300	1000X1820X2300	1000X1820X2300
Rated current (A)	630~3150A			
Main electrical components				
VCB (NV1-24)				
CT LZB9-24				
PT		2~3	3	2~3
High-voltage fuse		3	3	3
Earthing switch				
Surge arrester			3	3
Application	Bus bar disconnecting	Voltage measuring	Voltage measuring	Voltage measuring
Note				

Program No.	013	014	015	016
Single line diagram				
Switchgear Dimension (Width×depth×Height)	1000X1820X2300	1000X1820X2300	1000X1820X2300	1000X1820X2300
Rated current (A)	630~3150A			
Main electrical components				
VCB (NV1-24)				
CT LZB9-24				
PT	3		3	3
High-voltage fuse	3	3	3	3
Earthing switch				
Surge arrester			3	3
Application	Measuring+ communicating	Fuse	Measuring+ communicating	Measuring+ communicating
Note				

# KYN28A-24(Z)

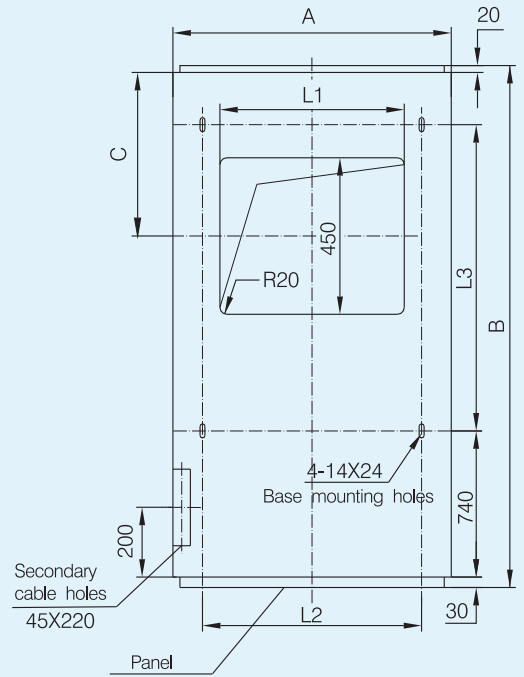
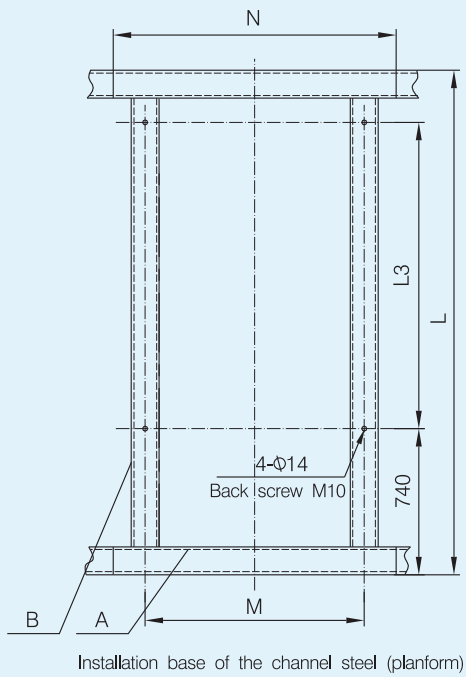
Program No.	017	018	019	020	
Single line diagram					
Switchgear Dimension (Width × depth × Height)	1000X1820X2300	1000X1820X2300	1000X1820X2300	1000X1820X2300	
Rated current (A)	630~3150A				
Main electrical components	VCB (NV1-24)	1	1		
	CT LZB9-24	2~3	2~3	3	3
	PT			2	3
	High-voltage fuse			3	3
	Earthing switch				
	Surge arrester		3		
Application	Communicating	Communicating	Communicating + measuring	Communicating + measuring	
Note					

Program No.	021	022	023	024	
Single line diagram					
Switchgear Dimension (Width × depth × Height)	1000X2150X2300	1000X2150X2300			
Rated current (A)	630~3150A				
Main electrical components	VCB (NV1-24)	1			
	CT LZB9-24	2~3	3		
	PT				
	High-voltage fuse				
	Earthing switch				
	Surge arrester		3		
Application	Communicating	Overhead incoming feeder			
Note					



# KYN28A-24(Z)

## 7. Installation Dimension (Unit: mm)



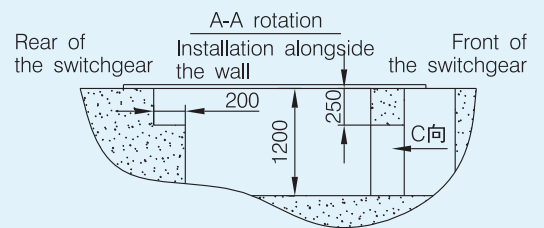
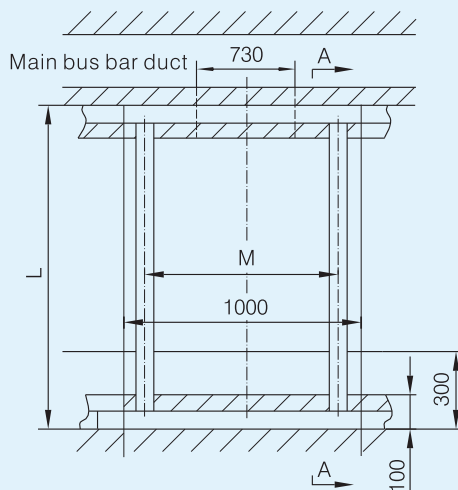
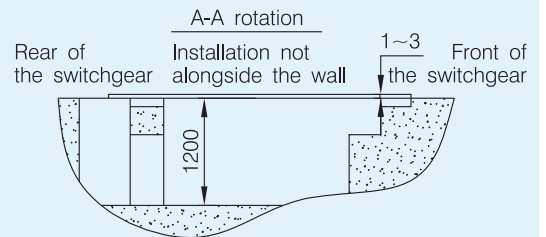
※ Note: 1. Depth of the cable duct should be  $\geq 1200\text{mm}$

2. The A, B channel steel (8 #) in the installation base figure is 1~3mm above the ground.

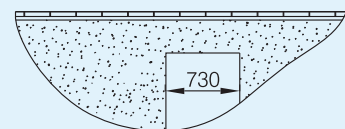
## 8. Installation Foundation Scheme (Unit: mm)

Dimension unit: mm

Switchgear width A	Switchgear depth B	L	M	N	L1	L2	L3	C
1000	1820	1770	830	1000	730	830	880	470
	2150	2100						800



C direction view



## 9. Ordering Information

Please specify the following information when ordering:

- 9.1 The secondary connection diagram and the terminals allocation diagram.
- 9.2 Name, model, specification and list of adopted components
- 9.3 Quantity of main bus bar.
- 9.4 Type and quantity of extra accessories and spare parts, if needed.
- 9.5 Customized products are available.

# KYN28A-12(Z)

## KYN28A-12 (Z) Metalclad AC Enclosed Switchgear Panel, Withdrawable Type



KYN28A-12(Z)(GZS1)

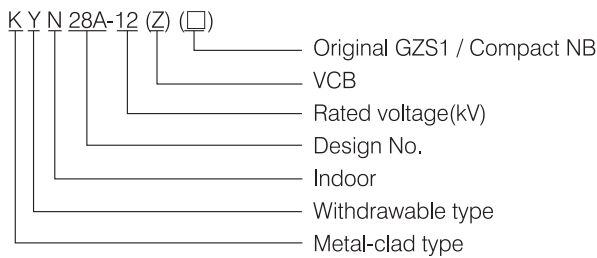


KYN28A-12(Z)(NB)

### 1. General

- 1.1 Ratings: system voltage 3.6~12kV, rated current up to 3150A, AC 50/60Hz.
- 1.2 Application: applicable for power receiving and distribution and for control, protection and measurement of circuit.
- 1.3 Standards: IEC 62271-200

### 2. Type Designation



### 3. Working Condition

- 3.1 Ambient air temperature: -15°C ~ +40°C (-25°C ~ +45°C available as customized products)
  - 3.2 Altitude: ≤4000m
  - 3.3 Relative humidity:
    - Daily average ≤95%, daily average water vapor pressure ≤2.2kPa
    - Monthly average ≤90%, monthly average water vapor pressure ≤1.8kPa
  - 3.4 Earthquake intensity: ≤ magnitude 8
  - 3.5 Applicable in places without corrosive, flammable gas and steam and places no regular severe shock.
- ※ Note: Customized products available.

### 4. Feature

- 4.1 KYN28A-12(Z)(GZS1) and KYN28A-12(Z)(NB) available.
- 4.2 Reliable "anti-5" mechanical latch, convenient and safe maintenance,
- 4.3 Both VCB of ZN63□ -12 developed by our company and VD4, VB2 AND 3AH manufactured by other companies around the world can be matched with the switchgear.

### 5. Main Technical Parameter

Item	Unit	Data
Rated voltage	kV	3.6, 7.2, 12
Rated frequency	Hz	50
Rated current of circuit breaker	A	630, 1250, 1600, 2000, 2500, 3150, 4000, 5000
Rated current of switchgear	A	630, 1250, 1600, 2000, 2500, 3150, 4000, 5000
Rated short time withstand current (4s)	kA	16, 20, 25, 31.5, 40, 50
Rated withstand current (peak)	kA	40, 50, 63, 80, 100, 125
Rated short circuit breaking current	kA	16, 20, 25, 31.5, 40, 50
Rated short circuit closing current (peak)	kA	40, 50, 63, 80, 100, 125
Rated insulation level	1min power frequency	Between poles, pole to earth kV 24, 32, 42
	withstand voltage	Between open contacts kV 24, 32, 48
	Lightning impulse	Between poles, pole to earth kV 40, 60, 75
	withstand voltage(peak)	Between open contacts kV 46, 70, 85
Protection level	Shell: IP4X; IP2X when the CPT and CB doors are open.	

- ※ Note: 1. The short circuit capacity of the current transformer should be separately considered.
- 2. See technical parameters of ZN63A-12 in related catalogues of our company.

# KYN28A-12(Z)

## 6. Construction

The switchgear is composed of panel body and middle-mounted removable part .

The panel body is divided into four separate compartments.

Overhead incoming and outgoing feeder, cable incoming and outgoing feeder, and combining schemes. Installation and maintenance can be operated at the front of the switchgear, so it can be double arranged back to back and can be installed against the wall, which improves the product's safety, flexibility and saves space

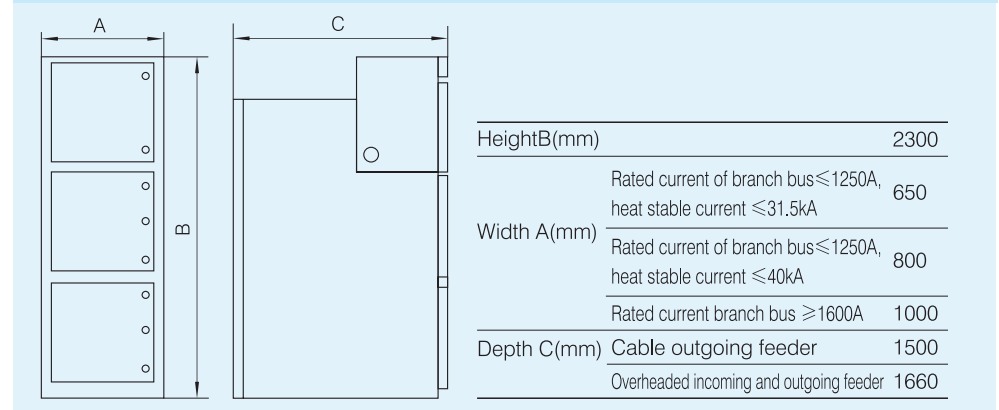
### 6.1 KYN28A-12(Z)(GZS1) Switchgear Panel

Ratings:

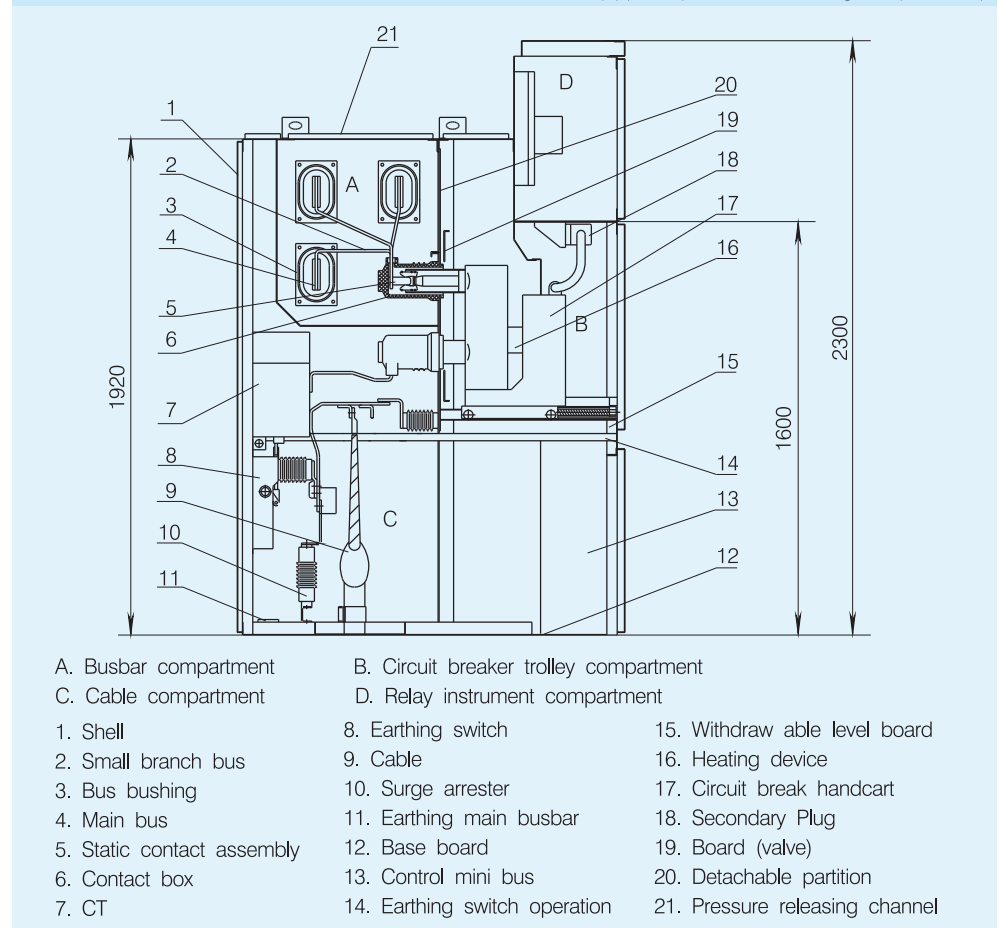
1. Rated current  $\leq 3150\text{A}$ , altitude  $\leq 4000\text{m}$ .

2. Switchgear for altitude 3000m-4000m: Rated current  $\leq 1250\text{A}$ , short circuit breaking current  $\leq 31.5\text{kA}$ , switchgear width = 1000m.

KYN28A-12(Z)(GZS1) Switchgear Panel layout dimensions



KYN28A-12(Z)(GZS1) construction diagram (Unit:mm)





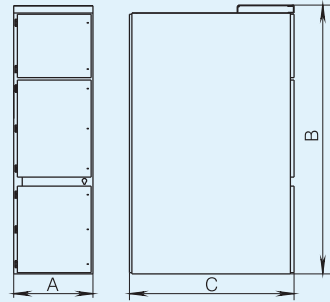
# KYN28A-12(Z)

## 6.2 KYN28A-12(Z)(NB) Switchgear Panel

Ratings:

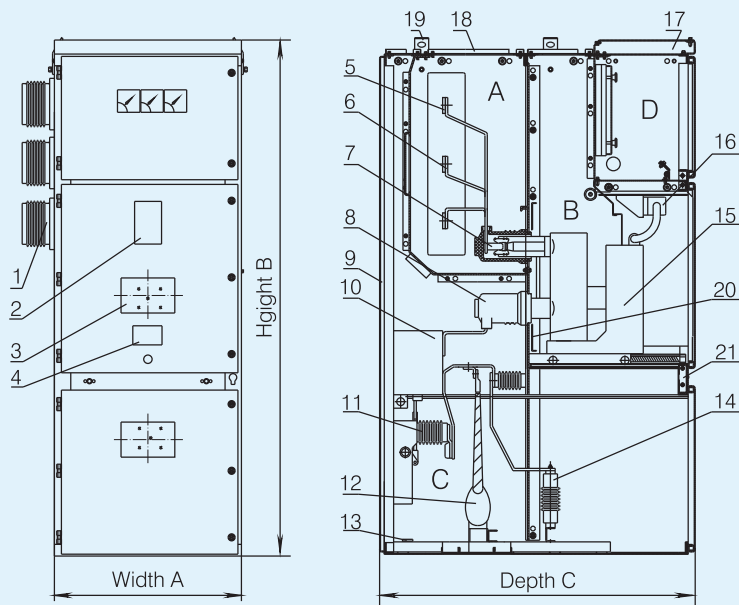
1. Rated current  $\leq 5000\text{A}$ , altitude  $\leq 1000\text{m}$ .
2. Switchgear for Rated current  $4000\text{A} \sim 5000\text{A}$ : layout dimension  $1000 \times 1550(1660) \times 2300$  (flat top switchgear).

KYN28A-12(Z)(NB) Switchgear panel layout dimensions



Height B (mm)		2200
	Rated current 4000A~5000A	2300
Width A (mm)	Rated current of branch bus $\leq 1250\text{A}$ , heat stable current $\leq 31.5\text{kA}$	650
	Rated current of branch bus $\leq 1250\text{A}$ , heat stable current $\leq 40\text{kA}$	800
	Rated current branch bus $\geq 1600\text{A}$	1000
Depth C (mm)	Cable outgoing feeder, Overhead incoming and outgoing feeder	1350
	Rated current 4000A~5000A	1550(1660)

KYN28A-12(Z)(NB) Switchgear panel construction diagram



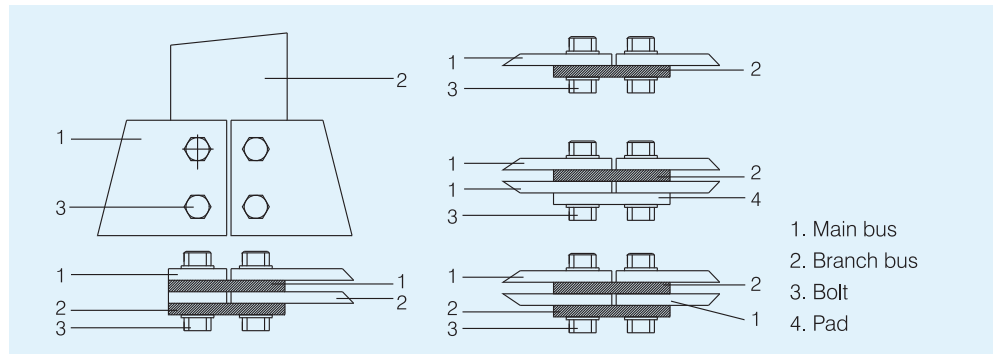
A. Busbar compartment  
C. Cable compartment

B. Circuit breaker trolley compartment  
D. Relay instrument compartment

1. Busbushing 2. Simulate buswinding 3. View window of the trolley compartment  
4. Nameplate 5. Main bus 6. Branch bus 7. Static contact 8. Contact box 9. Rear plate  
10. CT 11. Earthing switch 12. Cable 13. Main earthing bus 14. Arrester 15. Trolley  
16. Air plug 17. Secondary mini busbar compartment 18. Pressure releasing plate  
19. Lifting ring 20. Partition 21. Withdrawable horizontal partition

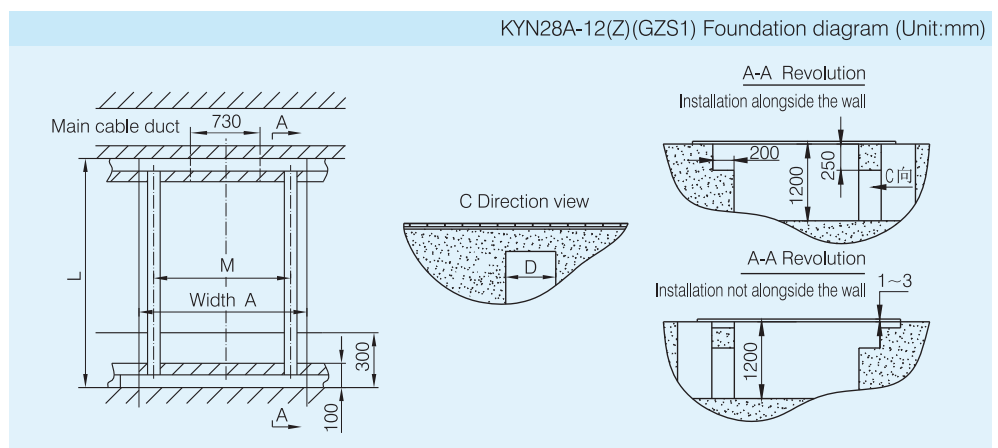
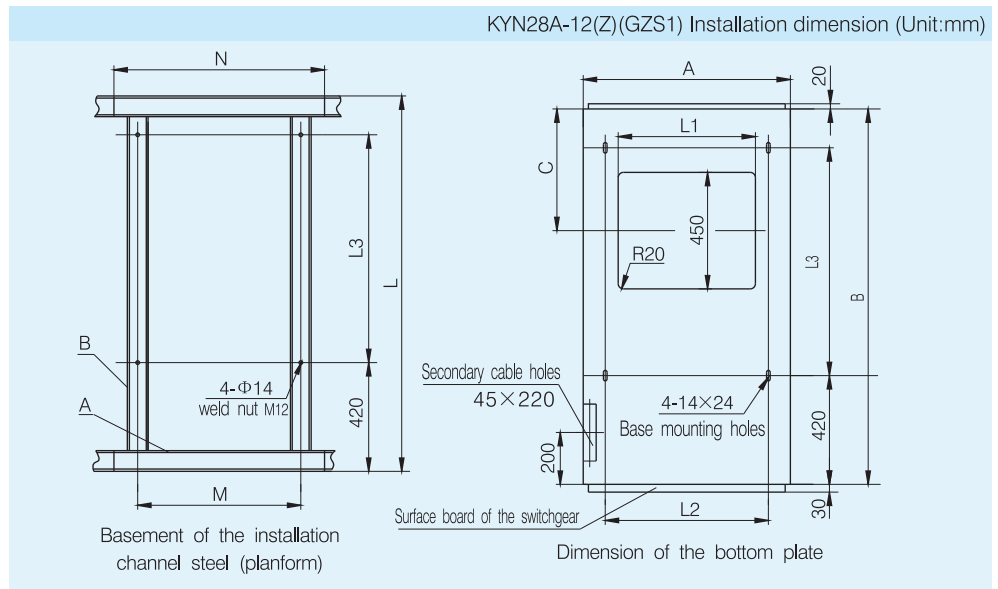
# KYN28A-12(Z)

## 7. The Connecting Form of the Bus and Branch Busbar



## 8. Installation Base Scheme

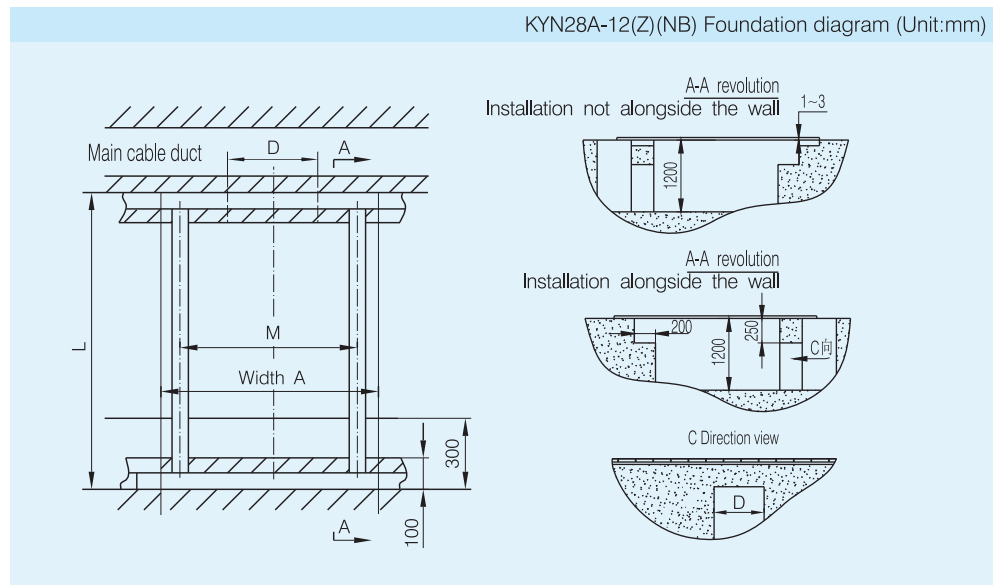
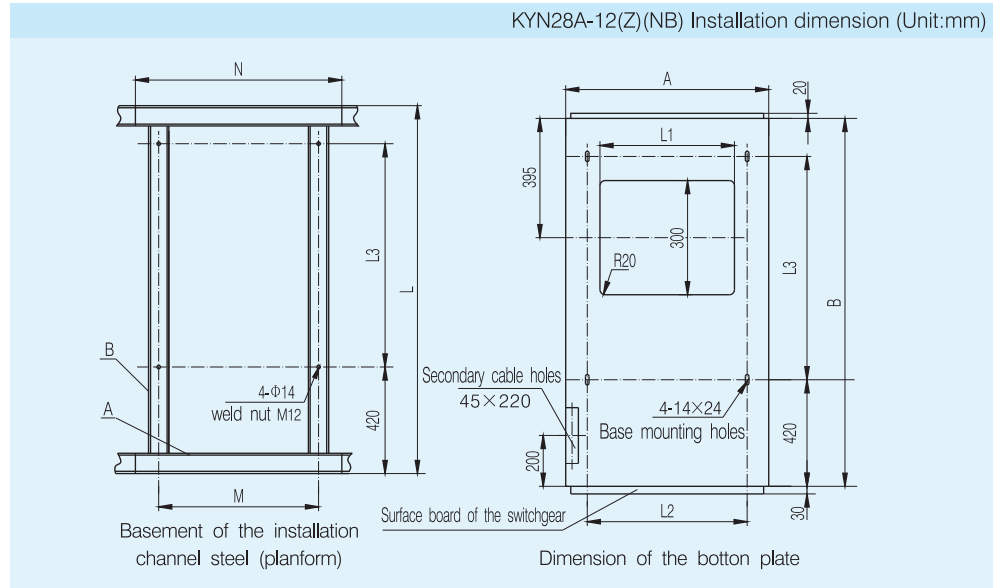
### 8.1 KYN28A-12(Z)(GZS1) Switchgear Panel



Width A	Depth B	M	N	D	L1	L2	L3	C	L
650	1500 Cable	480	650	430	380	480	880	470	1450
	1660 Overhead							630	1610
800	1500 Cable	630	800	580	530	630	880	470	1450
	1660 Overhead							630	1610
1000	1500 Cable	830	1000	730	730	830	880	470	1450
	1660 Overhead							630	1610

# KYN28A-12(Z)

## 8.2 KYN28A-12(Z)(NB) Switchgear Panel



Width A	Depth B	M	N	D	L1	L2	L3	L
650	1350 Cable	480	650	430	380	480	730	1300
800	1350 Cable	630	800	580	530	630	730	1300
1000	1350 Cable	830	1000	730	730	830	730	1300

# KYN28A-12(Z)

## 9. Single Line Diagram

Program No.	01	02	03	04	05	06	
Single line diagram							
Dimensions(W × $\frac{D \times H(GZS1)}{D \times H(N B)}$ )mm	$650 \times \frac{1500 \times 2300}{800 \times 1350 \times 2200}$ 1000	$650 \times \frac{1500 \times 2300}{800 \times 1350 \times 2200}$ 1000	$650 \times \frac{1500 \times 2300}{800 \times 1350 \times 2200}$ 1000	$650 \times \frac{1660 \times 2300}{800 \times 1550 \times 2200}$ 1000	$650 \times \frac{1500 \times 2300}{800 \times 1350 \times 2200}$ 1000	$650 \times \frac{1500 \times 2300}{800 \times 1350 \times 2200}$	
Rated current(A)	630~5000						
Main electrical components	VCBZN63A or VD4	1	1	1	1	1	
	CT LZZBJ9 series	3	3	3	3		
	Earthing switch JN15	1					
	Surge arrester HY5W	3				3	3
	PT					JDZ10-10   2	JDZX10-10   3
HV capacitor RN2-10					3	3	
Circuit name	Receiving, Feeding	Communication	Overhead incoming feeder	Overhead incoming and outgoing feeder	Cable incoming feeder + PT	Voltage measurement + surge arrester	

Program No.	07	08	09	10	11	12	
Single line diagram							
Dimensions(W × $\frac{D \times H(GZS1)}{D \times H(N B)}$ )mm	$650 \times \frac{1500 \times 2300}{800 \times 1350 \times 2200}$ 1000	$650 \times \frac{1500 \times 2300}{800 \times 1350 \times 2200}$ 1000	$650 \times \frac{1500 \times 2300}{800 \times 1350 \times 2200}$ 1000	$650 \times \frac{1500 \times 2300}{800 \times 1350 \times 2200}$ 1000	$800 \times \frac{1500 \times 2300}{1000 \times 1350 \times 2200}$	$800 \times \frac{1500 \times 2300}{1000 \times 1350 \times 2200}$	
Rated current(A)	630~5000						
Main electrical components	CT LZZBJ9 series			2			
	Surge arrester HY5W	3			3	3	
	PT	JDZX10-10   3			JDZ10-10   2	3	
	HV capacitor RN2-10	3			3	RN3-10   3	3
	Transformer					1	
Capacitor						3	
Circuit name	Voltage measurement + surge arrester + busbar	Busbar	Disconnection + communication	Measurement + communication	Transformer	Capacitor panel	

## 10. Ordering Information

Please specify the following information when ordering:

- 10.1 Main circuit program number and single line system diagram, allocation diagram and layout diagram should be supplied.
- 10.2 Main circuit diagram, busbar bar diagram for main circuit, allocation diagram should be supplied.
- 10.3 Secondary wiring diagram and terminals allocation diagram should be supplied.
- 10.4 Electrical equipments list.
- 10.5 Span an height dimension should be supplied if bus bridge needed.
- 10.6 Spare parts and their quantity.
- 10.7 Customized products are available.



# KYN61-40.5(Z)

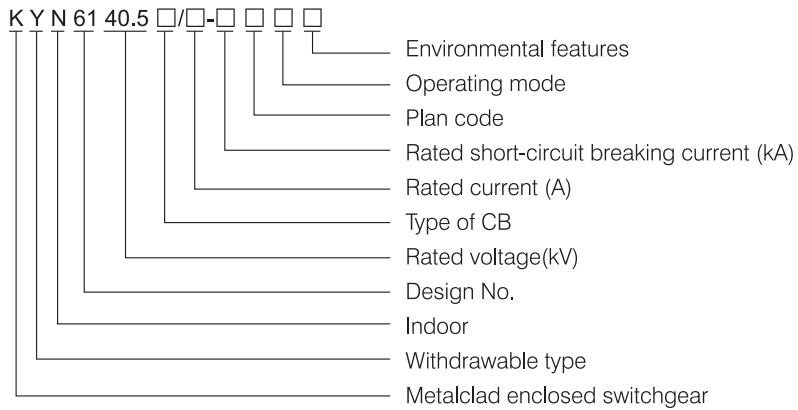
## KYN61-40.5(Z) Metalclad AC Enclosed Switchgear, Withdrawable Type



### 1. General

- 1.1 Ratings: system voltage 40.5kV, rated current up to 2000A, AC 50/60Hz.
- 1.2 Application: applicable for power receiving and distribution of power plant and substations for control, protection and measurement.
- 1.3 Standard: IEC 62271-200

### 2. Type Designation



### 3. Working Condition

- 3.1 Ambient air temperature: -15°C ~ +40°C (-25°C ~ +45°C available as customized products)
  - 3.2 Altitude: ≤1000m
  - 3.3 Relative humidity: Daily average ≤95%  
Monthly average ≤90%
  - 3.4 Earthquake intensity: ≤magnitude 8
  - 3.5 Applicable in the places without corrosive and flammable gas.
- ※ Note: Customized products are available.

# KYN61-40.5(Z)

## 4. Main Technical Parameter

### 4.1 Switchgear Panel Parameters

Item	Unit	Data
Rated voltage	kV	40.5
Rated current	Rated current of main bus bar	A 1250,1600,2000,(2500)
	Rated current of matched VCB	A 1250,1600,2000,(2500)
Rated current	1min power frequency withstand voltage	KV 95
	Lightning withstand voltage	kV 185
	Power frequency withstands voltage of auxiliary circuit and control circuit	V/1min 2000
Rated frequency	Hz	50
Rated short-circuit breaking current	kA	20 25 31.5
Rated short-time withstand current/ Rated short-circuit continuous time	kA/4s	20 25 31.5
Rated withstands current (peak)	kA	50 63 80*
Rated short-circuit making current	kA	50 63 80*
Rated voltage of control circuit	V	DC: 110 220; AC: 110 220
Protection level	Switchgear shell	IP3X
	Compartments (door opened)	IP2X

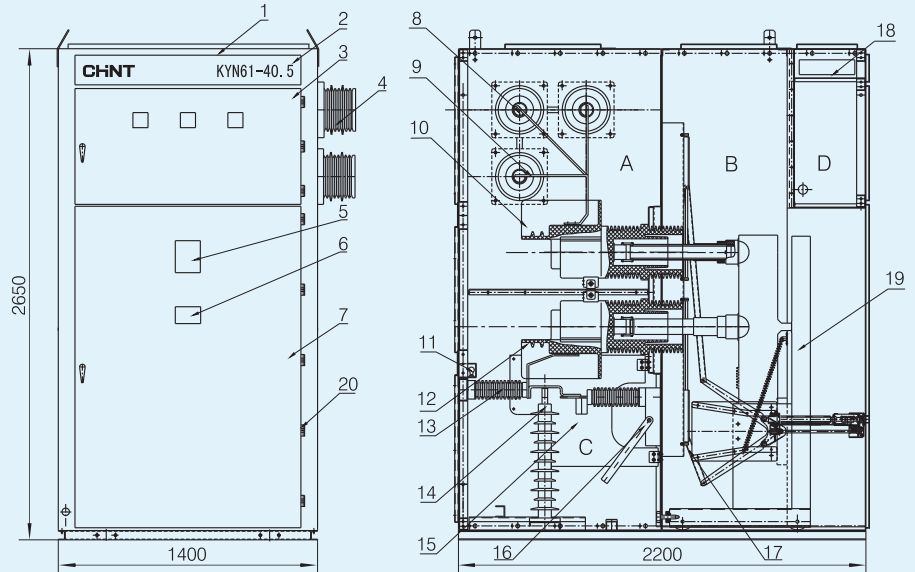
### 4.2 VCB Parameter

Item	Unit	Data
Rated voltage	kV	40.5
Rated current	A	1250,1600,2000,(2500)
Rated frequency	Hz	50
Rated short-time breaking current	kA	20 25 31.5
Rated short-circuit making current	kA	50 63 80
Rated peak withstand current	kA	50 63 80
Rated short-time withstand current/Rated short-circuit continuous time	kA/4s	20 25 31.5
Rated insulation level	1min power frequency withstand voltage (rms)	kV 95
	Thundering withstand voltage(rms)	kV 185
	Power frequency withstand voltage of auxiliary circuit and control circuit	V/1min 2000
Mechanical life	Times	10000
Making time	Electro-magnetic mechanism	s $\leq 0.2$
	Spring mechanism	s $\leq 0.15$
Breaking time	s	$\leq 0.07$
Rated operation sequence		open-0.3s-close open-180s-close

# KYN61-40.5(Z)

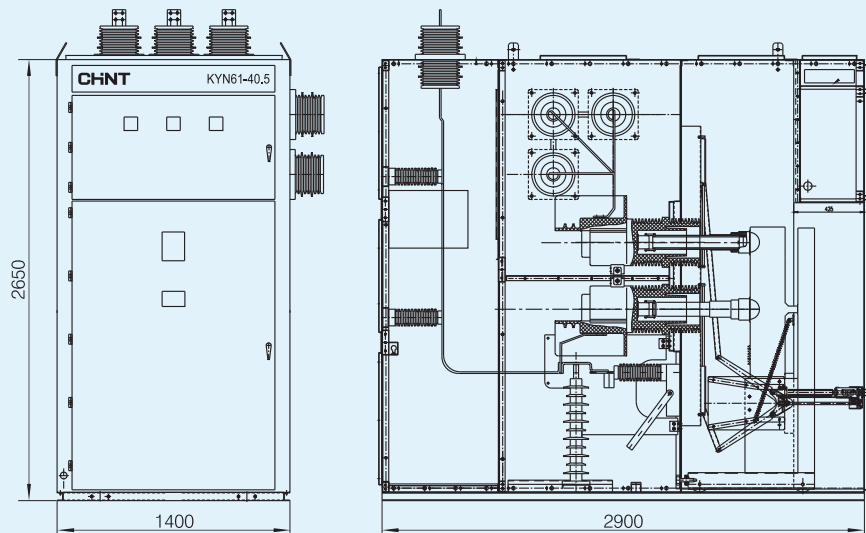
## 5. Construction

Steel construction switchgear panel (Unit:mm)



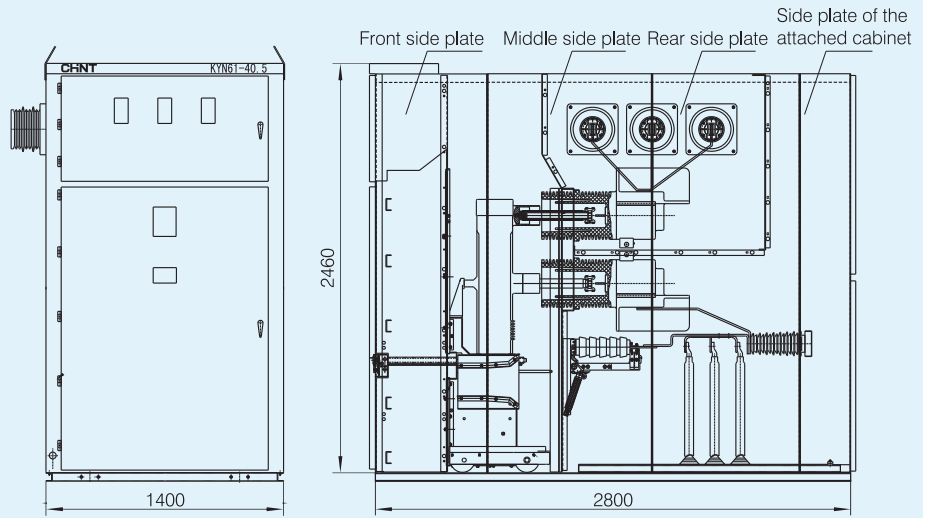
- A. Bus compartment B. Trolley C. Cable compartment D. Relay meters compartment  
 1. Assembly 2. Mini bus compartment covering plate 3. Meters compartment door  
 4. Bus bushing 5. Analog bus 6. Nameplate 7. Trolley compartment door 8. Main bus  
 9. Branch bus 10. Contact box 11. Lamb 12. CT 13. Insulator  
 14. Oxide zinc surge arrester 15. Insulating plate 16. Earthing switch 17. Valve assembly  
 18. Mini bus terminal 19. VCB trolley 20. Hinge

Steel construction switchgear with an accessory cabinet (overheaded incoming feeder) switchgear (Unit:mm)



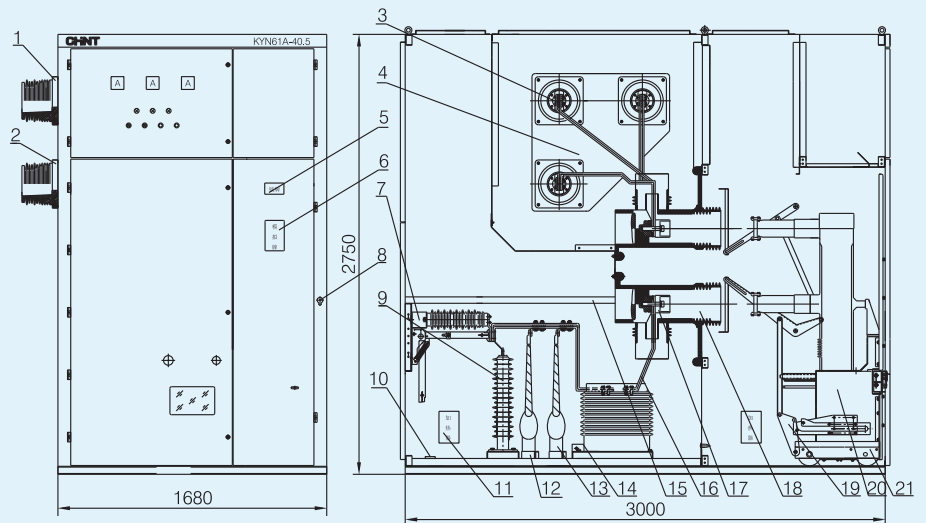
# KYN61-40.5(Z)

Aluminum-zinc deposited construction with an accessory cabinet switchgear (Unit:mm)



※ Note: depth of overhead incoming cabinet is 3300mm

## KYN61A-40.5 (1680mm wide type panel)

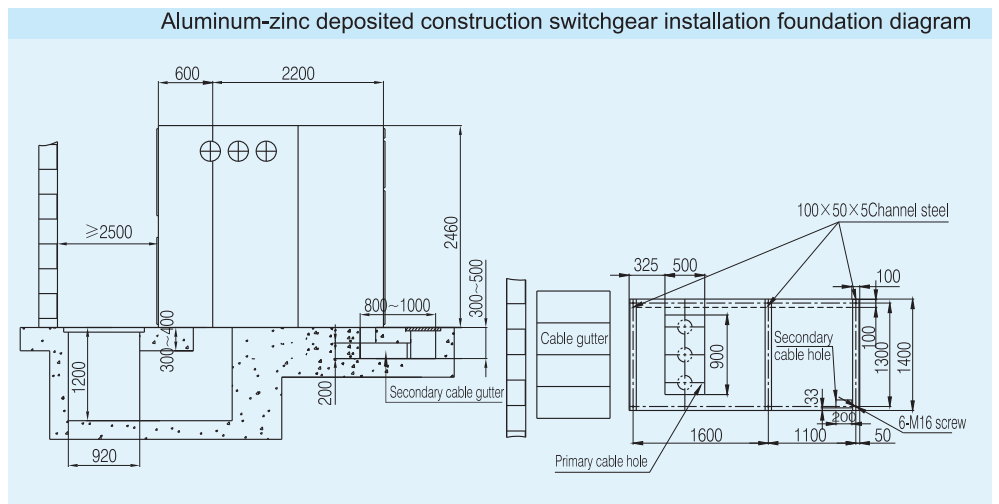
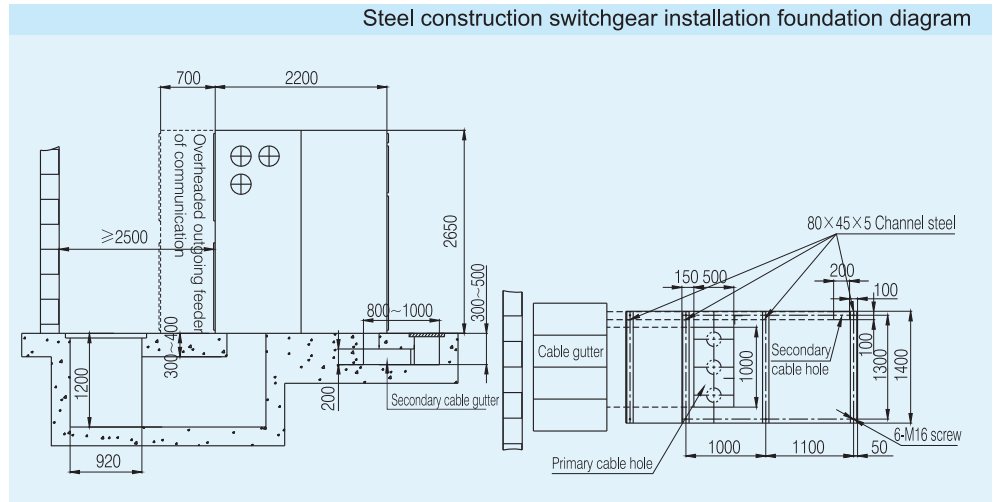


- |                                     |                                     |  |
|-------------------------------------|-------------------------------------|--|
| 1. 35kV Bushing                     | 8. Seal plate                       | 15. Earthing switch operating interlocking mechanism |
| 2. Panel body assembly              | 9. Surge arrester                   | 16. Lower branch bus                                 |
| 3. Main bus and branch bus assembly | 10. Earthing bus assembly           | 17. Primary static contact                           |
| 4. Main bus clapboard               | 11. Heater                          | 18. 35kV Contact box                                 |
| 5. Nameplate                        | 12. Cable clamp                     | 19. Valve mechanism assembly                         |
| 6. Imitating plate                  | 13. Primary HV cable and cable head | 20. Secondary socket and interlocking assembly       |
| 7. Earthing switch                  | 14. Current transformer             | 21. VCB (with trolley)                               |



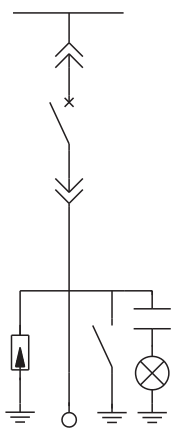
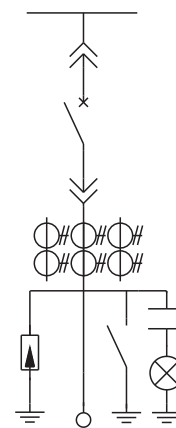
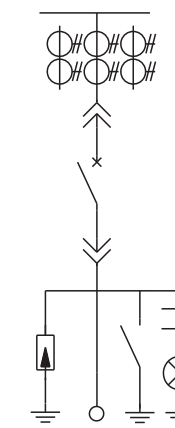
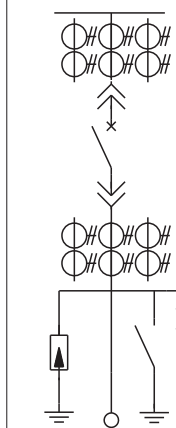
# KYN61-40.5(Z)

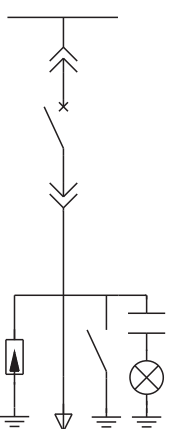
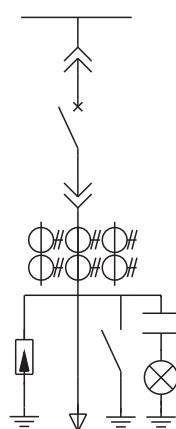
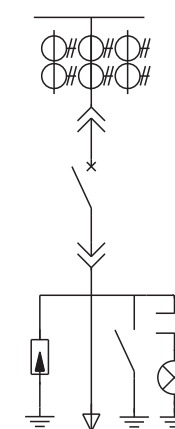
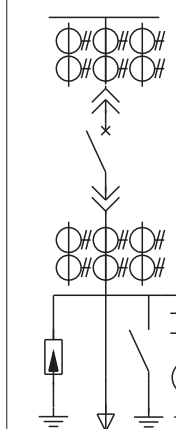
## 6. Installation Base and Dimension (Unit:mm)



# KYN61-40.5(Z)

## 7. Single Line Diagram

Program No.	001	002	003	004
Single line diagram				
Main electrical components				
VCB ZN85-40.5	1	1	1	1
CT LDJ5-35Q		1-3	1-3	4-6
PT				
HV Capacitor				
Earthing switch	0-1	0-1	0-1	0-1
Live Monitor	0-1	0-1	0-1	0-1
Surge arrester	0/3	0/3	0/3	0/3
Application	Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder

Program No.	005	006	007	008
Single line diagram				
Main electrical components				
VCB ZN85-40.5	1	1	1	1
CT LDJ5-35Q		1-3	1-3	4-6
PT				
HV Capacitor				
Earthing switch	0-1	0-1	0-1	0-1
Live Monitor	0-1	0-1	0-1	0-1
Surge arrester	0/3	0/3	0/3	0/3
Application	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder

# KYN61-40.5(Z)

Program No.	009	010	011	012
Single line diagram				
Main electrical components				
VCB ZN85-40.5	1	1	1	1
CT LDJ5-35Q		1-3		1-3
PT				
HV Capacitor				
Earthing switch				
Live Monitor	0-1	0-1	0-1	0-1
Surge arrester	0/3	0/3	0/3	0/3
Application	Overhead Incoming(outgoing) feeder communicating	Overhead Incoming(outgoing) feeder communicating	Overhead Incoming(outgoing) feeder communicating	Overhead Incoming(outgoing) feeder communicating

Program No.	013	014	015	016
Single line diagram				
Main electrical components				
VCB ZN85-40.5	1	1	1	1
CT LDJ5-35Q		1-3	1-3	4-6
PT				
HV Capacitor				
Earthing switch				
Live Monitor	0-1	0-1	0-1	0-1
Surge arrester	0/3	0/3	0/3	0/3
Application	Left (right) communicating	Left (right) communicating	Left (right) communicating	Left (right) communicating

# KYN61-40.5(Z)

Program No.	017	018	019	020
Single line diagram				
Main electrical components				
VCB ZN85-40.5				
CT LDJ5-35Q		1-3	1-3	4-6
PT				
HV Capacitor				
Earthing switch				
Live Monitor	0-1	0-1	0-1	0-1
Surge arrester	0/3	0/3	0/3	0/3
Application	Left (right) communicating	Left (right) communicating	Left (right) communicating	Left (right) communicating

Program No.	021	022	023	024
Single line diagram				
Main electrical components				
VCB ZN85-40.5	1	1	1	1
CT LDJ5-35Q		1-3	1-3	4-6
PT				
HV Capacitor				
Earthing switch	0-1	0-1	0-1	0-1
Live Monitor	0-1	0-1	0-1	0-1
Surge arrester	0/3	0/3	0/3	0/3
Application	Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder

# KYN61-40.5(Z)

Program No.	025	026	027	028
Single line diagram				
Main electrical components				
VCB ZN85-40.5	1	1	1	1
CT LDJ5-35Q	1-3	1-3	1-3	1-3
PT			2	2
HV Capacitor				
Earthing switch	0-1	0-1	0-1	0-1
Live Monitor	0-1	0-1	0-1	0-1
Surge arrester				
Application	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Measuring+ Overhead incoming and outgoing feeder	Measuring+Overhead incoming and outgoing feeder

Program No.	029	030	031	032
Single line diagram				
Main electrical components				
VCB ZN85-40.5	1	1	1	1
CT LDJ5-35Q	1-3	1-3	1-3	1-3
PT	2	2	2	2
HV Capacitor				
Earthing switch	0-1	0-1	0-1	0-1
Live Monitor	0-1	0-1	0-1	0-1
Surge arrester				
Application	Measuring & cable incoming feeder	Measuring & cable incoming feeder	Measuring & left/right communicating	Measuring & left/right communicating



# KYN61-40.5(Z)

Program No.	033	034	035	036
Single line diagram				
Main electrical components				
VCB ZN85-40.5				
CT LDJ5-35Q				
PT	1-3	1-3	1-3	1-3
HV Capacitor	3	3	3	3
Earthing switch				
Live Monitor	0-1	0-1	0-1	0-1
Surge arrester	0/3	0/3	0/3	0/3
Application	PT	PT & cable incoming and outgoing feeder	PT & left(right) communicating	PT overhead & left(right) communicating

Program No.	037	038	039	040
Single line diagram				
Main electrical components				
VCB ZN85-40.5				
CT LDJ5-35Q				
PT				
HV Capacitor				
Earthing switch				
Live Monitor	0-1	0-1	0-1	0-1
Surge arrester	3	3	3	3
Application	Surge arrester	Surge arrester & cable incoming and outgoing feeder	Surge arrester & left(right) communicating	Surge arrester overhead & left(right) communicating

# KYN61-40.5(Z)

Program No.	041	042	043	044
Single line diagram				
Main electrical components	VCB ZN85-40.5			
	CT LDJ5-35Q			
	PT	1-3		
	HV Capacitor	3	3(XRNT)	3(XRNT)
	Earthing switch			
	Live Monitor			
	Surge arrester			
Application	PT + surge arrester and communicating feeder	Transformer overhead and communicating	Transformer	Transformer
Note		Transformer SC9-35	Transformer SC9-35	Transformer SC9-35
Program No.	045	046	047	048
Single line diagram				
Main electrical components	VCB ZN85-40.5	1	1	1
	CT LDJ5-35Q	3	3	3
	PT	3	3	3
	HV Capacitor			
	Earthing switch	0-1	0-1	0-1
	Live Monitor	0-1	0-1	0-1
	Surge arrester			
Application	Measuring & cable incoming feeder	Measuring & cable incoming feeder	Measuring & left/right communicating	Measuring & left/right communicating





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