

Medium Voltage Switchgear **KYN61-40.5** Metalclad AC Enclosed Switchgear, Withdrawable Type

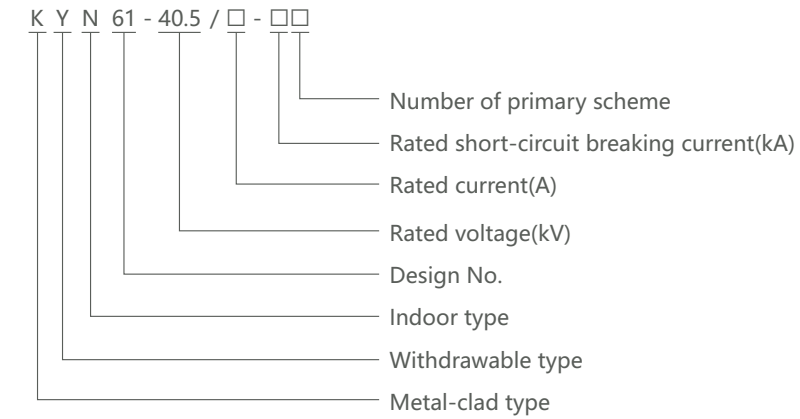
- KYN61-40.5 Air insulated metal clad movable switchgear is an indoor switchgear, assembly operating under the conditions of 50/60Hz three phase and rated 40.5kV AC voltage, which is applied to the transmission and distribution for generators, transformer substations and the industry and mine enterprises. It also can be used to control, protect and monitor electric circuits, and very useful for frequent operating conditions.
- Standard: IEC62271-200

General



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Selection



Operating conditions

1. Ambient air temperature: -15°C~+40°C
2. Altitude: ≤1000m
3. Relative humidity : Daily average≤95%; Monthly average≤90%
4. Earthquake intensity:≤magnitude 8.
5. Applicable in the places without corrosive and flammable gas.

Note: Customized products are available.

Features

1. The cabinet is made of aluminum-zinc coated sheet processed by CNC equipment and assembled with bolts or rivets, with a fully modular structure.
2. This switchgear has various functions to prevent misoperations, including preventing loaded trolleys from moving, preventing live coupling and earthing switches, and preventing inadvertent entry into live compartments.
3. The switchgear is equipped with a ZN85 vacuum circuit breaker with excellent performance and a handcart, and the main busbar is connected without the need for transitional transfer.
4. This switchgear is an advanced, stable performance, reasonable structure, easy-to-use, safe and reliable power distribution equipment

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Technical data

Switchgear parameter

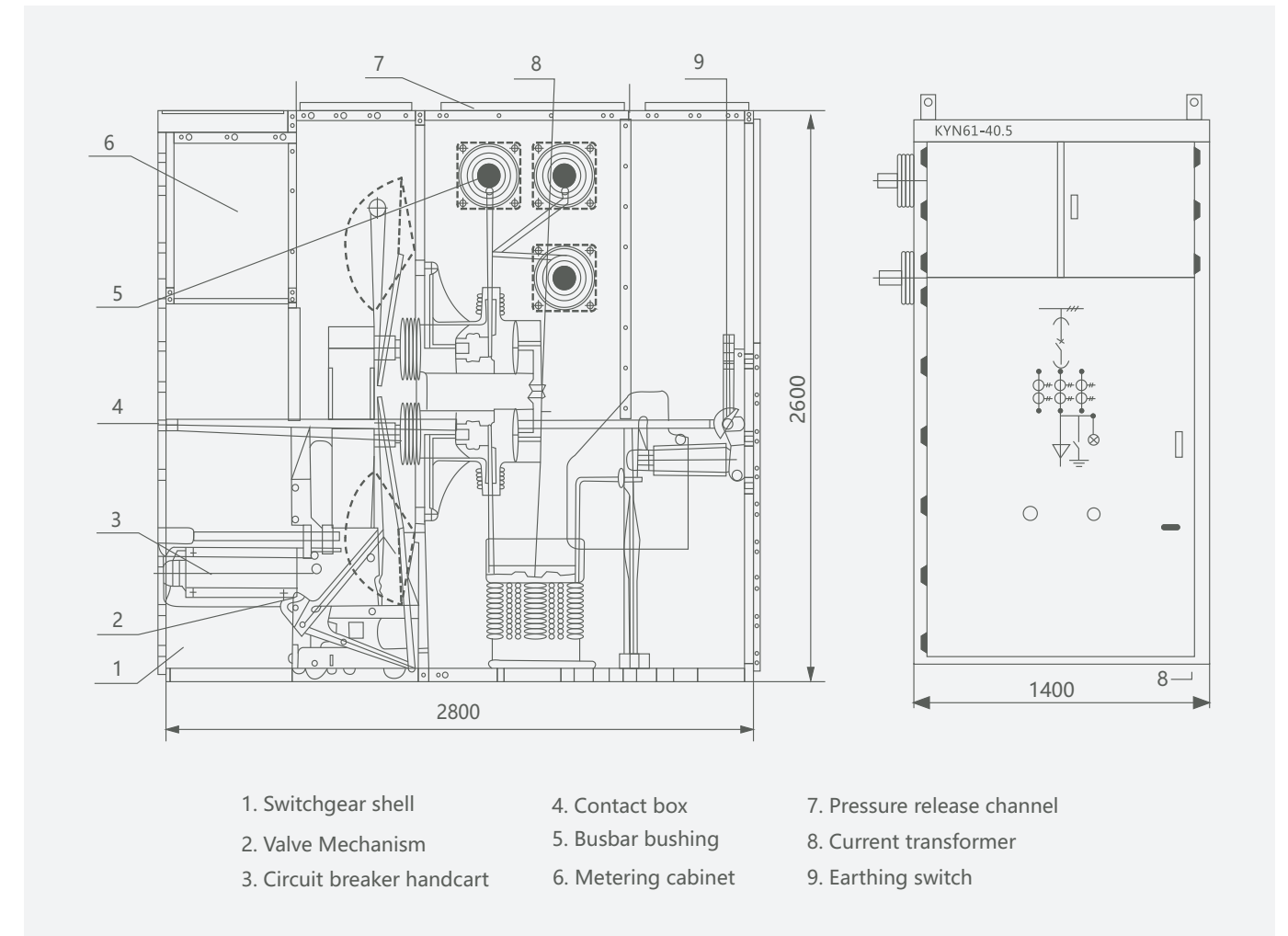
No.	Item	Unit	Value
1	Rated voltage	kV	40.5
2	Rated current	A	630/1250/1600/2000/2500
3	Rated frequency	Hz	50/60
4	Power frequency withstand voltage in 1 min	Phase, Earthed	kV 95
		Isolating Fracture	kV 110
5	Lightning impulse withstand voltage(Peak)	Phase, Earthed	kV 185
		Isolating Fracture	kV 215
6	Rated current of the main busbar	A	630/1250/1600/2000/2500
7	Rated current of the branch busbar	A	630/1250/1600/2000/2500
8	Rated short-circuit breaking current	kA	20/25/31.5
9	Rated short-time withstand current	kA	20/25/31.5
10	Rated peak withstand current	kA	50/63/80
11	Rated short circuit making current	kA	50/63/80
12	Frequency withstand voltage in 1min of aux control loop	V	2000
13	Internal arc duration test(0.5s)	kA	31.5
14	Degree of protection	IP	IP4X(IP2X when the front door is opened)
15	Rated voltage of aux control loop	V	AC or DC 110/220

ZN85-40.5 parameter

No.	Item	Unit	Data
1	Rated voltage	kV	40.5
2	Rated insulation level	lightning impulse withstand voltage (full wave)	kV 185
		1 min power frequency withstand voltage	kV 95
3	Rated frequency	Hz	50
4	Rated current	kA	630 630,1250 1250,1600,2000,2500
5	Rated short -circuit breaking current	kA	20 25 31.5
6	Rated short -circuit making current	kA	50 63 80
7	Rated withstands current (peak)	kA	50 63 80
8	Rated short-time withstand current	kA	20 25 31.5
9	Fixed breaking time	s	≤0.07
10	Making time	Electro-magnetic mechanism	s Electro-magnetic mechanism≤0.2
		Spring mechanism	s Spring mechanism≤0.10
11	Rated operation sequence	/	Open-0.3s-close open-180s-close open
12	Mechanical life	times	10000

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Features



Single line diagram

Program No.	01	02	03	04
Single line diagram				
Main electrical components	VCB ZN85-40.5 JNH1-40.5 CT LZZB7,8,9-40.5	1 0-1 /	1 0-1 1	1 0-1 2 3
Application	Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder
Note				

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Program No.		05	06	07	08
Single line diagram					
Main electrical components	VCB ZN85-40.5	1	1	1	1
	JNH1-40.5	0-1	0-1	0-1	0-1
	CT LZZB7,8,9-40.5	/	1	2	3
Application		Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder	Cable incoming and outgoing feeder
Note					

Program No.		09	10	11	12
Single line diagram					
Main electrical components	VCB ZN85-40.5	1	1	1	1
	CT LZZB7,8,9-40.5	/	1	2	3
Application		Left(right) communicating	Left(right) communicating	Left(right) communicating	Left(right) communicating
Note					

Program No.		13	14	15	16
Single line diagram					
Main electrical components	CT LZZB7, 8, 9-40.5	/	1	2	3
Application		Left(right) communicating	Left(right) communicating	Left(right) communicating	Left(right) communicating
Note					

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Program No.		17	18	19	20
Single line diagram					
Main electrical components	VCB LZZB7,8,9-40.5	/	1	2	3
	JNH1-40.5	0-1	0-1	0-1	0-1
Application		Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder
Note					

Program No.		21	22	23	24
Single line diagram					
Main electrical components	VCB LZZB7,8,9-40.5	/	1	2	3
	JNH1-40.5	0-1	0-1	0-1	0-1
Application		Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder	Overhead incoming and outgoing feeder
Note					

Program No.		25	26	27
Single line diagram				
Main electrical components	CT LZX9-40.5Q	2	3	/
	Fuse XPNP-40.5	3	3	3
	Arrester HY5W-51	/	/	3
Application		Potential transformer	Potential transformer	Potential transformer
Note				