



KYN61-40.5KV Indoor Metal-clad Medium Voltage Switchgear

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KYN61-40.5 Metal-enclosed switchgear 3P AC 50Hz, rated voltage of 40.5kV suitable for power plant, substation and power distribution to industrial and mining enterprises, railway transportation as the acceptance and distribution of electric energy. And the implementation of control, protection and monitoring function of circuit. The utility model has the advantages of flexible operation, reliable electrical performance, long service life, convenient maintenance. KNY61-60.5 can be equipped with ABB/Schneider/Knkong series 40.5KV VCB.

Service environment:

- a) Air temperature: -25°C~+40°C
- b) Humidity:Monthly average humidity 95%; Daily average humidity 90% .
- c) Altitude:≤ 2500m
- d) Ambient air not apparently polluted by corrosive and flammable gas, vapor etc.
- e) No frequent violent shake

Technical data

Items		Unit	Data
Rated Voltage		KV	40.5
Rated Frequency		Hz	50
Rated Current		A	1250,1600,2000
Rated Short-circuit Breaking Current		KA	25,31.5
Rated Making Current (Peak)		KA	63,80
4s Thermal Stability Current		KA	25,31.5
Rated Dynamic Current (Peak)		KA	63,80
Rated Insulation Level	1min Power Frequency Withstand Voltage (r.m.s)	KV	95
	Lightning Impulse Withstand Voltage (Peak)	KV	185
	1min Power Frequency Voltage Across the open gap (r.m.s)	KV	118
	Lightning Impulse Withstand Voltage Across the open gap (Peak)	KV	215
Enclosure Protection Class			Enclosure IP4X, Between Compartments IP2X
Enclosure Dimension (Width*Depth*Height)		mm	1400*2800*2600 1600*2800*2600
Type of Circuit Breaker			VCB:ZN85-40.5 SF6 Circuit Breaker

*Note: order switchgear should provide SLD(Single-line diagram) by customer

Main components characteristics:



VS1-40.5 Indoor Vacuum Circuit Breaker

Rated voltage: 40.5kV

Rated current: 630 1250 1600 2000 2500A

Rated short circuit breaking current: 20 25 31.5KA

Mechanical life: 20,000 times

VS1-40.5 Technical data

Items	Unit	Date
Rated voltage	KV	40.5
Rated short-time power frequency withstand voltage (1min)		95
Rated lightning impulse withstand voltage (peak)		185
Rated freq	Hz	50/60
Rated current	A	1250 1600 2000 2500 4000
Rated short-circuit drop-out current	KA	25 31.5
Rated short time withstand current		25 31.5
Rated short time continual time	s	4
Rated peak withstand current	KA	63 80
Rated short-circuit closing current		63 80
Rated single/ back-to-back capacitor bank drop-out current	A	630/400
Opening time (rated volt.)	ms	35~60
Closing time (rated volt.)		50~100
Mechanical life	times	20000
Rated break times for rated short drop out current	s	20
Rated operation voltage	V	AC110/220 DC110/220
Rated current of power storing motor	W	230
Average opening speed	m/s	1.6~2.0
Average closing speed		0.5~0.8
Rated operation procedure		opening-0.3s-closing opening-180s-closing opening

Fully type-tested

The switchgear has undergone all the tests required by the international (IEC) Standards. Each switchgear unit is subjected to routine tests in the factory before delivery. These tests are intended to provide a functional check of the switchgear based on the specific characteristics of each installation.

IEC type tests

- Short-time and peak withstand current
- Temperature rise
- Internal arc capability
- Dielectric test
- Making and breaking capacity of circuit-breaker
- Earthing switch making capacity (top application)
- Mechanical operations of circuit-breaker and line disconnecter
- IP degree and impact test

IEC routine factory tests

- Visual inspection and check
- Mechanical sequence operations
- Cabling check
- Electrical sequence operations
- Power frequency withstand voltage
- Measurement of the resistance of the main circuits
- Secondary insulation test

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