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ABB


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ACTOM


RPS SWITCHGEAR

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PRODUCTS:

*Power Transformers · Dry Type Transformers · Distribution Transformers · GIS Switchgear
Substation Equipment · Mini Substations · Turnkey Electrical Equipment
Power Accessories · Containered Equipment · Low and Medium Voltage Switchgear*

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PROCUREMENT

CONSTRUCTION

COMMISSIONING

MAINTENANCE

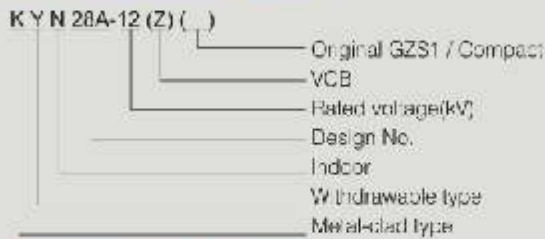
KYN28A-12(Z)

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

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) available.
- 4.2 Reliable 'anti 5' mechanical latch, convenient and safe maintenance.
- 4.3 Both VCB of ZN63A-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 withstand voltage	Between poles, pole to earth: kV 24, 32, 42
	Lighting impulse withstand voltage(peak)	Between open contacts: kV 24, 32, 48
Protection level	Lighting impulse withstand voltage(peak)	Between poles, pole to earth: kV 40, 60, 75
		Between open contacts: kV 46, 70, 85
Protection level		Shell: IP4X; IP2X when the OPT 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.



Customised Containerised Substations

6m or 12m from 3,3kV upto 33kV customised containerised sub-stations equipped with MV Switchgear, MCC's, Transformers to comply with sub-station regulations.

- Skid mount sub-stations
- Modular sub-stations up to 132kV



Mini Substations

- Domestic M/S up to 1MVA, up to 36kV
- Industrial M/S up to 5MVA, up to 36kV
- Special requirements on request
- Designs meet all local & international standards
- Dry type underground mining mini sub-stations



Dry Type Transformers

Dry Type Transformers up to 10MVA 36kV



Distribution & Power Transformers

All distribution Transformers pad mounted and pole mounted up to 36kV.

Power Transformers up to 750MVA 500kV.



RCW Recloser

Pole mounted vacuum recloser to:

- 15kV to 38kV
- 630A to 800A



RCW Main Technical Data

No.	Item	Unit	Data			
1	Rated voltage	kV	15	27	38	
2	Rated current	A	630	1250	800	
3	Rated frequency	HZ	50/60			
4	Power frequency 1 min	Dry	kV	50	65	85
		Wet	kV	45	55	75
5	Lightning impulse withstand voltage (peak value) alternate opposite/fracture	kV	110	150	170	
6	Rated short circuit breaking current	kA	20	16/25	12.5	
7	Rated short current switching current (peak value)	kA	50	40/63	31.5	
8	Rated peak value withstand current	kA	50	40/63	31.5	
9	45 Short time withstand current	kA	20	16/25	12.5	
10	Rated operating circulate		O-TI-CO-T2-CO-T3-CO-T4 -CO			
11	Breaking current frequency under rated short circuit	times	30			
12	Mechanism life	times	10000			
13	Secondary loop 1 min power (frequency withstand voltage	kV	2			