

Technical data

Table 1 Switchgear

Switchgear model	HICLAD 20GB		HICLAD 30GB
Switchgear type	NBG-24		BGB-36
Applicable standards	IEC62271-200		
Classification of switchgear	SF ₆ -insulated metal-enclosed		
Service condition	● Altitude < 1000m	● Ambient temperature Max. 40°C, Min. -5°C 24h. average < 35°C	● Relative humidity 24h.average < 95% 1 month average < 90%
Rated voltage (kV)	24		36
Rated current (A)	1250, 2000		1250, 2000, 2500
Rated frequency (Hz)	50/60		
Insulation level	1 min power frequency (kV rms)	50	70
	1.2 × 50 μs impulse (kV peak)	125	170
Rated short-time withstand current (kA-s)	25-3		31.5-3
Degree of protection	HV compartment	IP65	
	LV compartment	IP40	
Gas pressure	Rated pressure (MPa)	0.05	0.08
	Alarm pressure (MPa)	0.02	0.06
Operation of 3-position isolator	Motorized / Manual		
Auxiliary voltage	Control circuit (V)	DC 30, 110, 125, 220	
	Motor circuit (V)	AC 220, 230, 240 / DC 110, 125	

Table 2 Vacuum Circuit-Breaker (VCB)

VCB model	NVG-22		VGB-33
Applicable standards	IEC62271-100		
Rated voltage (kV)	24		36
Rated current (A)	1250, 2000		1250, 2000, 2500
Rated frequency (Hz)	50/60		
Insulation level	1 min power frequency (kV rms)	50	70
	1.2 × 50 μs impulse (kV peak)	125	170
Rated short-circuit breaking current (kA)	25		31.5
Rated short-circuit making current (kA peak)	63		82
Rated short-time withstand current (kA-s)	25-3		31.5-3
Operating duty*	O-0.3sec.-CO-3min-CO		
Rated closing time (s)	0.05		
Rated opening time (s)	0.05		
Rated break time (s)	0.07		
Rated TRV for terminal fault	Rate of rise (kV/μs)	0.47	0.57
	TRV peak voltage (kV)	41	62
Type of operating mechanism	Motor charged spring		

* : Other duties, O-0.3sec.-CO-15sec.-CO, O-0.3sec.-CO-1min-CO-1min-CO are also available.