

72.5-126-145kV 气体绝缘金属封闭开关设备 SF6 GAS-INSULATED METAL-ENCLOSED SWITCHGEAR



■ 使用环境条件 Normal service conditions

项目 Item	单位 Unit	技术参数 Technical data			备注 Remarks
		72.5kV	126kV	145kV	
1.1 安装 Installation		户内或户外 Indoor or outdoor			
1.2 环境温度 Ambient air temperature	℃	-30~40			
1.3 太阳辐射 Radiation of sunlight	W/cm ²	0.1			风速在 0.5m/s Wind at 0.5m/s
1.4 湿度 (月平均) Humidity (per month)	%	≤90			温度在 25℃ At 25℃
1.5 海拔 Altitude	m	1000	2000	3000	
1.6 风速 Wind	m/s	≤35			
1.7 地震 Earthquake intensity	水平加速度 Horizontal acceleration	g	0.4		同时作用 Accelerated simultaneously
	垂直加速度 Vertical acceleration	g	0.2		
1.8 爬山比距 Creepage distance					
一般污秽 General pollution	Cm/kV	1.7			按额定电压算 Calculated to rated voltage
轻污秽 Light pollution	Cm/kV	2.1			
重污秽 Severe pollution	Cm/kV	2.5, 3.1			

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■ 2. 技术参数 Technical data

2.1 标称电压 Nominal voltage	kV	66	110	132
2.2 额定电压 Rated voltage	kV	72.5	126	145
2.3 额定电流 Rated normal current	A	1250/1600/2000/3150/4000 (主母线) (Main busbar)		
2.4 额定频率 Rated frequency	Hz	50		
2.5 额定短时耐受电流 4s/3s Rated short time withstand current	kA	31.5/40		
2.6 额定峰值耐受电流 Rated peak withstand current	kA	80/100		
2.7 额定雷电冲击耐受 (峰值) Rated lightning impulse withstand voltage(peak)	kV	325	550	650
2.8 额定工频耐受 (有效值) Rated power frequency withstand voltage(r.m.s)	kV	140	230	275
2.10 可见电晕 Visible corona		1.1 倍额定相电压时没有电晕 No corona at 1.1 of rated phase-voltage		
无线电干扰 Radio interference		1.1 倍额定相电压时小于 500 μ V Less than 500 μ V at 1.1of rated phase-voltage		
2.11 SF6 气体 SF6 gas pressure	MPa	CB 其它 others Rated 额定 0.5 0.4/0.5 Alarm 报警 0.45 0.3/0.35/0.4 Lockout 封闭 0.4		20℃时 20℃时
2.12 SF6 年漏气率 Annual leakage rate of SF6 gas	%	≤0.5		
2.13 气隔内水分含量 Moisture content of gas apartment	断路器 CB	Ppm (体积比)	≤150	
	其他元件 Other unit	Ppm (体积比)	≤250	
2.14 外壳型式 Type of enclosure		三相其箱 3-phase in one enclosure		
2.15 材料 Material	外壳 enclosure 导体 conductor 触头 contact		铜/铝 Steel/Al 铝合金/铜 AL/CU 铜镀银 Silver-plated Cu	
2.16 标准 Standard	IEC60517 《额定电压 72.5KV 及以上气体绝缘金属封闭开关设备》 IEC60517 "Gas-Insulated metal-enclosed switchgear for rated voltage 72.5KV and above"			
	GB7674-97 气体绝缘金属封闭开关设备 GB7674-97 SF6 gas insulated metal-enclosed switchgear			
2.17 控制电压 Control voltage	V	DC110/DC220		

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