

Introduction

SM6 is an expandable module combination type, metal sealed switchgear series product, and the selected switch devices include

- Load switch
- Fluarc SF1,SFset
- Rollarc400 or 400D contactor
- Isolation switch

SM6 cabinet is used for users and distribution stations below 24 kV in secondary substations of industrial and mining enterprises. In addition, SM6 can ensure personal and equipment safety, and is easy to install and operate

SM6 cabinet is designed for indoor installation (IP4X), with actual dimensions of:

- 375-750mm wide
- 1600mm high
- 1030 mm deep

Suitable for installation in distribution rooms or box type substations, the cables are wired from the front and all control functional components are centralized on the front control panel, simplifying operation. The cabinet can be equipped with accessories such as relays, coils, and instrument transformers

Normal working conditions

- Environmental temperature
- Not higher than 40 °C
- The average temperature within 24 hours shall not exceed 35 °C
- Not lower than -25 °C
- Altitude
- Not exceeding 1000m
- If it is higher than 1000m, it is necessary to reduce the capacity for use (please consult our company)
- Direct sunlight
- Do not allow direct sunlight
- Environmental pollution
- No serious dust, smoke, corrosive substance pollution, flammable gas, steam or salt spray humidity
- Humidity
- The average relative humidity within 24 hours shall not exceed 95%
- The average relative humidity within one month is not higher than 90%
- The average vapor pressure within 24 hours shall not exceed 2.2kPa
- The average vapor pressure within one month shall not exceed 1.8kPa

Under these conditions, the likelihood of condensation occurring in the equipment is very low. If the humidity is high and the temperature changes dramatically, condensation may occur. In order to prevent insulation damage caused by high humidity and condensation, it is recommended to refer to the recommendations of Civil Engineering when designing buildings or houses and adopt appropriate ventilation facilities and devices

Standard

SM6 cabinet meets the following standards and specifications:

- Chinese GB standards GB3906, GB/T11022, GB3804
- Chinese DL standards DL/T404, DL/T593
- International standard: IEC62271-20062271-162271-1056271-10062271-1026025560265
- UTE standards: NFC13.100, 13.200, 64.130, 64.160
- EDF standard: HN64-S-41, 64-S-43

主要电气特性

适用环境：工作温度-25℃~40℃，海拔低于1000米。				
额定电压(kV)		7.2	12	24
绝缘等级				
50Hz/1min (kV有效值)	对地	28	42	65*
	断口间	32	48	79*
1,2/50 μs (kV峰值)	对地	75	95	125
	断口间	85	110	145
分断能力				
空载变压器(A)		16		
空载电缆(A)		25		
短时耐受电流	25kA/1s*	630A-1250A		
	20kA/4s*	630A-1250A		
5%额定负荷开断电流		31.5A		
关合，开断能力		E3级		
额定有功负载开断电流		630A		
额定闭环开断电流		630A		
额定短路关合电流		50kA,63kA	50kA	
内燃弧		12.5kA/1s或20kA/1s*		

总体特性

最大分断能力			
额定电压(kV)	7.2	12	24
IM,IMC,IMB,NSM-C	630A		
QM,QMC	25kA	20kA	
带有熔断器的CRM	25kA		
DM1-A,DM1-D	25kA	20kA	
寿命			
柜型	机械寿命	电气寿命	
IM,IMC,IMB,IMP QM**,QMC**, NSM-C CRM	IEC60265 负荷开关5000次 操作	IEC60265 200次额定有功负载开断 E3级	
	IEC62470 接触器300,000 次操作	IEC62470 320A时,100,000次开断 250A时,300,000次开断	
DM1-A,DM1-D	IEC62271-100 10,000次操作	IEC62271-100 12.5kA时,40次开断 20kA时,25次开断 25kA时,20次开断 In,pf=0.7时,10,000次开断	
DMV	IEC62271-100 10,000次操作	25kA, 100次开断	