

MVnex 12kV

型铠装移开式交流金属封闭开关柜 Metal-clad Movable Switchgear

施耐德授权产品



产品概述

MVnex 金属铠装开关柜，是施耐德公司授权我公司生产的一款中压金属铠装式中置柜，整个柜体分有四个完全独立的隔室：母线室、电缆室、断路器室、低压室，采用中置式断路器手车结构设计，配用施耐德电气生产的 EV12 真空断路器。主要用于 3.6~12kV 配电系统。手车及开关柜全部符合 IEC298 及 GB3906-91 标准及“五防”闭锁的要求，运行安全可靠。该设备可用于分断 - 关合各种阻性、感性及容性负载。

环境条件

1. 环境温度：不高于 +40℃，不低于 -5℃。且 24h 内平均温度不超过 +35℃。
2. 海拔高度：海拔不超过 1000m。
3. 相对湿度：日平均值不超过 95%，月平均值不超过 90%。
4. 地震烈度：不超过 8 度。
5. 水蒸气压力：日平均值不超过 2.2kPa，月平均值不超过 1.8kPa。
6. 无火灾、爆炸危险、严重污秽、化学腐蚀及剧烈震动的场所。

Product Summary

MVnex armored metal switch cabinet is a middle voltage armored metal centrally installed switchgear, authorized by Schneider, manufactured by our company. The entire cabinet is divided into four independent completely compartments: busbar compartment, cable compartment, circuit breaker compartment and low-pressure compartment. It is designed as centrally installed circuit breaker truck structure, with EV12 vacuum circuit breaker produced by Schneider. And it is mainly used in 3.6~12kV power distribution system. Truck and switch cabinet meet the requirements of IEC298, GB3906-91 and "five prevention" locking function, with safe and reliable operation. The device can be used for breaking-closing of various resistive, sensitive and capacitive loads.

Environmental Conditions

1. Ambient Temperature: No more than +40℃, No less than -15℃. Average temperature no more than +35℃ within 24 hours.
2. Altitude: No more than 1000m.
3. Relative Humidity: Average humidity no more than 95% within one day, Average humidity no more than 90% within one month.
4. Earthquake Intensity: No more than 8 degrees.
5. Vapor Pressure: Average pressure no more than 2.2kPa within one day, Average pressure no more than 1.8kPa within one month.
6. No fire, explosion danger, serious dirt, chemical corrosion and violent vibration for product installed place.

产品特点

1. 凭借灵活的性能，MVnex 开关柜能为各种电网提供可靠的解决方案，包括新建，升级及改造项目。
2. 凭借小巧的体积与标准化的尺寸，MVnex 开关柜便于运输和贮藏。
3. 凭借全系列参数，MVnex 开关柜基本上免维护。当需要日常性维护时，MVnex 开关柜一体化结构及所配 EV12 断路器的可互换性使工作更加安全和简便。并且当出现电源故障时，由于运行人员可在绝对安全的情况下作出快速反应，因此大大缩短了故障停电时间。
4. 整体安全性由 EV12 断路器，Sepam1000+ 保护装置和三个专用低功率电流传感器构成的完整的保护系统确保了全部操作的安全性。
5. 非凡可靠性 MVnex 开关柜不仅以新颖和被认证的技术而著称，而且他具备施耐德电气现有成熟产品的顶尖品质；因此，您大可为 MVnex 开关柜经实践证明的技术和世界公认的可靠性放心。

Product Features

1. MVnex switchgear can provide reliable solutions for all guides due to its flexible performance, including new, update and rebuild projects.
2. MVnex switchgear can be easily transported and stored due to its delicate volume and standard dimension.
3. MVnex switchgear is almost free of maintaining due to its complete series of data. Uniform constructions of MVnex switchgear, combined with interchangeable working of breaker EV12, can help to be more safety and easy during daily maintaining. And when power fault occurred, power cut time will be greatly shorten as the operator can feedback quickly in utterly safety condition.
4. The assurance of the whole operation safety comes from the whole security of breaker EV12, Sepam1000+ protection device and three special lower-power current sensors.
5. Remarkable reliability of MVnex switchgear is not only famous for its novelty and authorized technical, but also for refined product and excellence quality of Schneider Electric. With these credentials, it is not surprise that the MVnex switchgear is the benchmark for reliability.

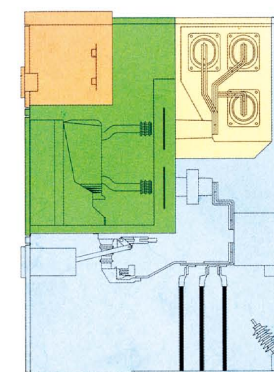
技术参数

Technical Parameters

序号 Sr.	名称 Content	单位 Unit	数值 Value
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current	A	630/1250/1600/2000/2500/3150/4000
3	额定频率 Rated Frequency	Hz	50/60
4	1min 工频耐受电压 Frequency Withstand Voltage in 1min	级间、对地 Phase, Earthed	kV 42
		隔离断口 Isolated Fracture	kV 48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	级间、对地 Phase, Earthed	kV 75
		隔离断口 Isolated Fracture	kV 85
6	主母线额定电流 Main Busbar Rated Current	A	630/1250/1600/2000/2500/3150/4000
7	分支母线额定电流 Branch Busbar Rated Current	A	630/1250/1600/2000/2500/3150/4000
8	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20/25/31.5/40/50
9	额定短时耐受电流 (4s) Rated Short-time Withstand Current(4s)	kA	20/25/31.5/40/50
10	额定峰值耐受电流 Rated Peak Withstand Current	kA	50/63/80/100/125
11	额定短路关合电流 Rated Short-circuit Current	kA	50/63/80/100/125
12	1min 辅助回路工频耐受电压 Aux. circuit Frequency Withstand Voltage in 1min	V	2000
13	防护等级 Protect Degree	IP	IP4X(断路器门或隔室间打开为 IP2X) IP4X (IP2X when breaker door or chamber is opened)
14	辅助控制回路额定电压 Rated Voltage of Aux. control Circuit	V	交流或直流 110/220 AC 110 / DC 220

开关柜结构尺寸示意图

Structure Dimension and Sketch



额定参数 Rated Data	外形尺寸 Dimension(mm)				
	H (高 Height)	W (宽 Width)	D(深 Depth)		
630A	2320	800	上进线 Cable Top Entry 1935*	下进线 Cable Bottom Entry	
				普通柜 Common Panel 1595	防内燃弧柜 Anti-internal Arcing Panel 1780
1250A	2320	800	2195**	1595	1780
2500A	2320	900	2295**	1595	1780
3150A	2320	900	2245**	1745	1780

* 最大后备包为 340mm，电缆上进线。 Max. back support panel is 340mm, cable top entry
 ** 最大后备包为 600mm，电缆上进线。 Max. back support panel is 600mm, cable top entry
 *** 最大后备包为 700mm，电缆上进线。 Max. back support panel is 700mm, cable top entry
 **** 最大后备包为 500mm，母排上进线。 Max. back support panel is 500mm, cable top entry