

MCS Intelligent LV Withdrawable Switchgear

Summary

MCS intelligent LV withdrawable switchgear applies to power plant, petrifaction, telecom, light industry, textile, construction and other civil and industrial & mineral enterprise distribution system. It regards to distribution, electromotor centralized control, reactive power factor compensation LV distribution device in the large power plant, telecom system, it combines computer interface to match it. The product conforms to: IEC60439 LV switchgear and controlgear, JB/T9661 LV drawable switchgear, GB7251 LV switchgear and controlgear.



Structure feature

1. The body adopts "c" type to combine it, uniform appearance, high precision, perfect interchange for drawer.
2. MCC panel width is 600mm, wide using capacity, save space.
3. It can equip with different type switch according to different requirement.
4. The device is obligate automatic interface, also install intelligent module on the panel to realize remote message, remote measurement remote control.

Ambient condition

1. Ambient temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$, daily average temperature $\leq+35^{\circ}\text{C}$;
2. Altitude: $\leq 2000\text{m}$;
3. Relative humidity: $\leq 90\%$ (20°C);
4. Vertical installation, slant: ≤ 5 degree;
5. Occasions without flammable and explosive matter, without corrosive chemical and frequent severe vibration.

Basic parameter

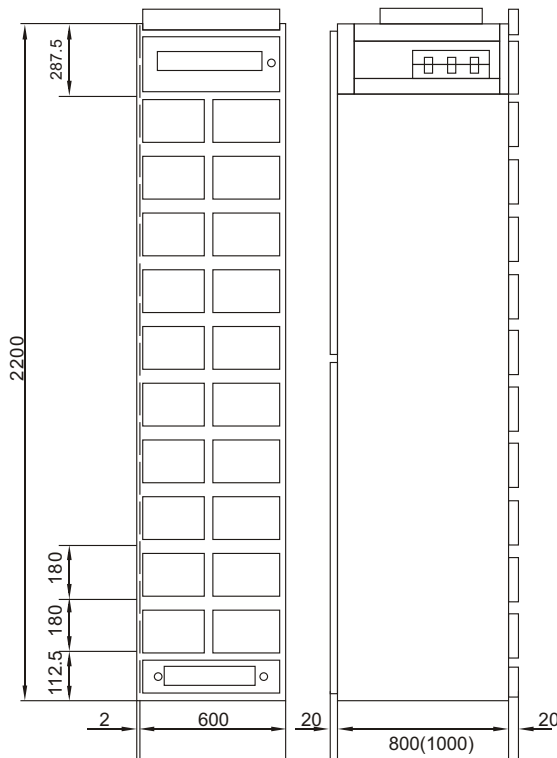
1. Electrical performance:
 - Rated working voltage: AC380V, AC660V;
 - Rated frequency: 50(60)Hz;
 - Rated insulation voltage: AC660;
 - Max working current of main busbar: 5000A;
 - Main busbar short time withstand current(1s): 100kA;
 - Main busbar peak withstand current: 220kA;
 - Max working current of vertical busbar: 1600A.
2. Protection grade:
 - IP30(incoming, PC panel)
 - IP40(MCC panel)

Drawer function unit

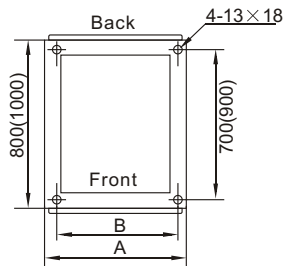
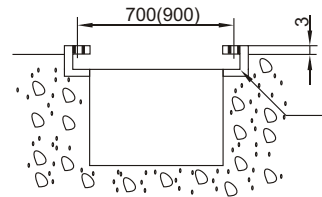
The drawer function unit is divided into MCC I , MCC II , MCC III .

1. MCC I type
 - Width of drawer is 600mm, height is 180mm, 360mm, 540mm. Allowed installation height is 1800mm, 10 units are the top quantity according to the dimension of drawer. It is suitable for heavy current motor control centre and feeder loop.
2. MCC II type
 - Width of drawer is 600/2mm, height is 200mm. Allowed installation height is 1800mm, 18 units are the top quantity according to requirement. It is suitable for 100 A or below unit.
3. MCC III type
 - Width of drawer is 600/2mm, height is 180mm, 360mm, 540mm. Allowed installation height is 1800mm, 20 units are the top quantity. It is suitable for 630A or below.
4. Operating mechanism
 - An operating mechanism is used for opening and closing switch in every drawer. Additional of mechanical interlock for prevent from fault operation. MCC II , MCC III drawer is push and pull type, fixed device and protection measure.

Outline dimension



Width A	Installation dimension B
600	500
800	700
1000	900
1200	1100



- Note:
1. Distance for maintenance in back of panel $\geq 800\text{mm}$;
 2. Distance for maintenance in front of panel $\geq 1500\text{mm}$;
Opposite double row $\geq 2000\text{mm}$;
 3. The panel depth is 800,1000mm, the depth of MCC panel contactor and cable up outlet panel is 1000mm.

Intelligent monitor applications software

1. MCS LV withdrawable switchgear and intelligent and monitor applications software communication

You only equip with a Switzerland DAE Company network electric power instrument or other same performance industrial modem with RS485 change to RS232 if you equip with our company monitor application software. It can pass through RS232 short range or pass through public telephone network to remote control the intelligent unit in MCS LV withdrawable switchgear directly. (It consists of mains power and diesel generator sets switchover). We will equip with compatible monitor application software to match IBM PC. The operation system is Microsoft WINDOWS XP/2000.

2. Interface and right

Every operation order is ico or direct numerical operation, Operation parameters is digital quantity display. Layered right operation and modify parameters should input correct password, the operator can modify self password.

3. Remote control

- 1) You should input correct password if you want to carry out intelligent unit opening and closing.
- 2) The intelligent unit will send out alarming signal or dial to working telephone or send mobilephone short message when meet abnormal open system.