



CDNES Low-voltage switchgear

Operating Conditions

1. The ambient air is not higher than +40℃ , not lower than -5℃ , and its average temperature is not higher than + 35℃ within 24 hours.
2. The relative humidity of the surrounding air does not exceed 50% at the highest temperature of + 40℃ , and has a relatively large relative humidity at lower temperatures, such as 90% at +20℃ , but considering the temperature Changes may occasionally produce moderate condensation.
3. For indoor use, the altitude of the place of use shall not exceed 2000m.
4. It should be installed in places where there is no severe vibration and shock, and no electrical components are corroded.

Technical data

Standards	GB7251.1-2005(TTA)	
	JB/T9661-1999	
Overtension level	IV III	
Pollution level	3	
Rated working voltage (Ue)(V)	380(660)	
Rated insulation voltage(Ui)(V)	660(1000)	
Rated frequency (Hz)	50(60)	
Horizontal busbar	Rated current	6300A,5000A,4000A,3150A 2500A,2000A,630A
	Rated short-time withstand current(Icw)(kA)	50,65,80,100(Is values)
	Rated peak withstand current (Ipk)(kA)	105,140,176,220(Max 0.1s)
Vertical busbar	Rated maximum operating current	<1000A
	Rated short-time withstand current	50kA
	Rated peak withstand current	105kA
Enclosure protection degree	IP30 IP40(Special Instructions)	

CDNES Features

Excellent technical performance

The whole series has passed the national 3C quality certification (maximum current is 6300A), which can best adapt to various conditions of the switchgear installation site. It can be opened and the operation is convenient. The top cover is an openable structure, which facilitates the installation of the main busbar on the construction site; 8E and above height drawer dashboard can be opened, which is convenient for wiring and maintenance, and also increases the installation space of the instrument.

High quality profiles, high reliability

New E-profiles to increase cabinet strength.

Humanized design, extraordinary experience

The three-dimensional cabinet design, highlighting the brow, ventilation grille, ventilation holes and other details; Ergonomic drawer handle design for comfortable grip and less effort; The drawer has a three-position mechanical indicator-----separation, test, connection, clear and concise.

Process improvement, functional upgrade

Create a patented technology door lock to effectively prevent the instrument door from sagging; The side plate and the bottom plate of the drawer are stamped and formed by one die, which effectively improves the interchangeability of the drawer; The drawer adopts the guiding and positioning advancement to ensure the reliable insertion of the first and second inserts while ensuring the smooth advancement of the drawer; the special double-folding process ensures the strength of the drawer while avoiding the damage of the processing burr to the human body.

Structural Features

This switchgear combines the advantages of various low-voltage switchgears on the market and is developed independently. It meets the technical parameters of various use conditions and also considers the installation, use and maintenance of the site. The situation makes it more in line with the needs of users. The cabinet adopts a 25mm model profile to combine various cabinet structures and drawer units to meet various needs. A large number of high-strength flame-retardant engineering plastic components are used in MCC cabinets to make them more safe. Reliable, the function board is combined with a module of 100mm, which makes it more convenient for the cabinet cabinet and the MCC cabinet. There is a reliable mechanical interlock between the extraction unit and the cabinet, and it has obvious three positions. The mechanical display prevents the load from being pulled when the switch is energized, which improves the safety of its power supply. The cabinet structure is assembled from aluminum-zinc plated steel and high-quality coldrolled steel plate (mainly door panels).

Switchgear Type

- a. Power incoming, Buscouple cabinet
 - b. Power center cabinet (PC)
 - c. Motor Control Center Cabinet (MCC)
 - d. Reactive power compensation cabinet
 - e. Fixed compartment
- Power distribution was carried out using a new series (CDW9) Air circuit breaker, which produced by China Delixi Electric (a joint venture between Delixi and Schneider).
- Assembled by drawers of different sizes, each circuit main switch adopts high breaking capacity, electronically adjustable molded case circuit breaker (CDM9)

Drawer Size Type

There are five sizes of 8E (200mm) height, modular structure design, the effective component installation height is 1800mm, making the overall layout of the cabinet more reasonable and more beautiful.

The following five drawer units can be assembled in a single cabinet or in a hybrid assembly.



Draw-out type	Max.Number of Units	Max.Number of Parallel combination Unit in 8E height
8E/4	36	4
8E/2	18	2
8E	9	1
16E	4+8E	1 in the height of 16E (400mm)
24E	3	1 in the height of 24E (600mm)