

GCS Low Voltage Withdrawable Switchgear

Summary

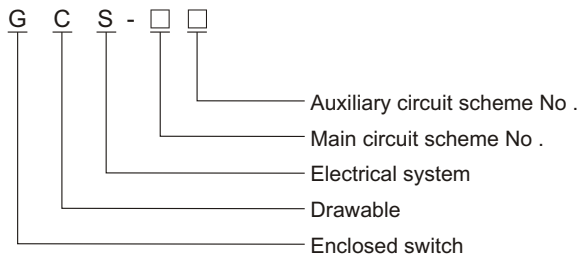
LV withdrawable switchgear is suitable for distribution system of power plant, high building and some lines, such as petroleum chemistry and industry, metallurgy, textile, etc. It is applicable for distribution, motor centralized control, reactive power compensation in power generation and power supply system of three phase AC 50/60Hz, rated voltage 380V(400V,600V), rated current 4000A and below, where require high automation and interfaces with computers.



Ambient condition

1. Ambient temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$, daily average $\leq +35^{\circ}\text{C}$. It should reduce capacity according to real condition when out of stipulation;
2. Indoor, Altitude $\leq 2000\text{m}$;
3. The change of ambient relative temperature will cause a little moist by accident;
4. The slant between device installation position and vertical section $\leq 5\%$;
5. Occasions without flammable and explosive matter, without corrosive chemical and frequent severe vibration.

Model



Structure feature

1. Main frame adopts 8MF open type steel which bended by 2.5mm cold rolled steel sheet. There are modulus with 20mm, 100mm, 9.2 mm installation hole located on three side, high strength for modelling installation conveniently.
2. The drawer divided into 1/2 unit, 1 unit, 2 unit, 3 unit, loop rated current is 400A and below.
3. Flexible assembly, compact structure, strong versatility, perfect secure performance, convenient assembly.
4. Improve thermal capacity of patchboard, reduce additional temperature rise of plug in, cable terminal, isolating board due to temperature rise of transition element.
5. It can not influence others unit when any unit appears to fault between function unit and isolating unit, limit the emergency in a small scope.
6. Busbar horizontal is good for dynamic and thermal stable performance.
7. The maximum 22 loops for MCC single panel, take consideration of requirement of auto motor door group about large unit capacity power plant, petroleum chemistry system line.
8. It finish connection of device and outer cable in cable compartment, upper and down inlet and outlet is available. The zero sequence current transformer is installed in the cable isolating compartment.
9. It can limit short circuit current depend on limited reactor in the same power distribution system, to stabilize busbar voltage, reduce short circuit intensity requirement.

Technical specification

Main circuit rated voltage(V)		AC 380(400), (600)
Auxiliary circuit rated voltage(V)		AC 220, 380(400) DC 110, 220
Rated frequency(Hz)		50(60)
Rated insulation voltage(V)		660(1000)
Rated current(A)	Horizontal busbar	≤4000
	Vertical busbar(mcc)	1000
Busbar rated short time withstand current(kA/1s)		50,80
Busbar rated peak withstand current(kA/0.1s)		105,176
P.F test voltage(V/min)	Main circuit	2500
	Auxiliary circuit	2500
Busbar	Three phase four wire	A.B.C.PEN
	Three phase five wire	A.B.C.PEN
Protection degree		IP40

Outline dimension

