

DC SWITCHGEAR PROVIDED WITH A COMMUTATION-TYPE DC CIRCUIT BREAKER

ABSTRACT

A DC switchgear provided with a commutation-type DC circuit breaker having a main circuit provided with a main switch for interconnecting a DC power supply and a load and for enabling and disabling a main circuit current flow, and a commutating circuit provided with a commutating capacitor and a commutating switch, which is connected electrically parallel to the main switch, comprising: a DC circuit breaker accommodating box includes, as a standard arrangement, the main circuit provided with the main switch, and the commutation-type DC circuit breaker having the commutating circuit provided with the commutating capacitor and the commutating switch, which are connected electrically parallel to the main switch; a front accommodating box disposed on the front of the DC circuit breaker accommodating box, which accommodates devices having functions for controlling the switchgear and indicating a status of the switchgear including a failure status thereof; and a rear accommodating box disposed on the back of the DC circuit breaker accommodating box, which accommodates a device for monitoring a status of the main circuit and protecting the main circuit; wherein the front accommodating box and the rear accommodating box are connected to the DC circuit breaker accommodating box to form an integrated DC switchgear.

(Fig. 1)