



SWITCH CONFIG.	BIL KV (T:T-T:G)	VOLTAGE RATING kV	CURRENT RATING A	OPERATING MECHANISM TYPE	CONTROL VOLTAGE	OUTLINE DRAWING	VES SWITCH PART NO.
1 POLE	200-200	34	600	SOLENOID	120 VAC	1001565	1000776G1

This switch is used for both capacitor and arc furnace switching. It is solenoid operated because it is used in three phase sets requiring simultaneous contact closure. It can close at zero voltage for capacitor switching or at peak voltage for arc furnace switching. Its solenoid operating current is 60 to 65 amperes peak for 1-1/2 cycles. An inadequate current supply is a common cause of improper operation. For capacitor switching this switch can be operated from a variety of AC and DC sources and is best operated by selecting from the controls shown on page 19. This switch has one form A (e.g. normal open) and one form B (e.g. normal closed) auxiliary contact. Repair parts are shown beginning on page 45.

Multiple switches are used in parallel for arc furnaces with up to 4000 amperes primary current. The switch current rating is derated to 500 A when used in parallel. Arc furnace controls that can operate from one to six switches per phase are shown on page 21. An arc furnace transformer control can optionally be operated using either resistor insertion or peak voltage closing to reduce in-rush currents.

Accessories available for this switch include both current limiting reactors and also resistor modules. The 30 micro henry reactor replaces the buss bar between the two modules. The reactor is used to limit in-rush currents when two capacitor banks are installed in parallel on a single buss. This switch also can be adapted as a resistor insertion switch by installing two 80 ohm resistor modules, one each, on top of the two vacuum interrupter modules. The two resistor modules are then series connected with the buss bar and have a total series resistance of 180 ohms. The controls required are shown starting on page 21. The reactors and resistors are shown on page 15.