

Application

Bree Vacuum Load-Break Switches play the primary role of maximizing the operation of the capacitor bank. It is designed to ensure a service life above 10,000 operations, which leads to a large reduction in the maintenance time of the equipment.

Bree switches are manufactured at a dedicated plant and in accordance with the ANSIC37.66 standard. They are supplied along with a set of cables and connectors that are key for their operation:

EQUIPMENT INCLUDED WITH EACH VACUUM SWITCH

Control	✓
Hoisting ring	✓
Grounding terminal	✓
Command and signaling cable	✓
Handle for manual opening and closing	✓
Interconnection and operation box	✓
Auxiliary contacts	Up to 6NO and 6NC

Important Information

ELECTRICAL COMMAND SPECIFICATIONS

Drive voltage	220Vac or 125Vdc
Opening time	Below 45ms
Closing time	Below 75ms (Closing 3 min. after opening)
Waiting time between tripping operations	At least 3 min

Design Features

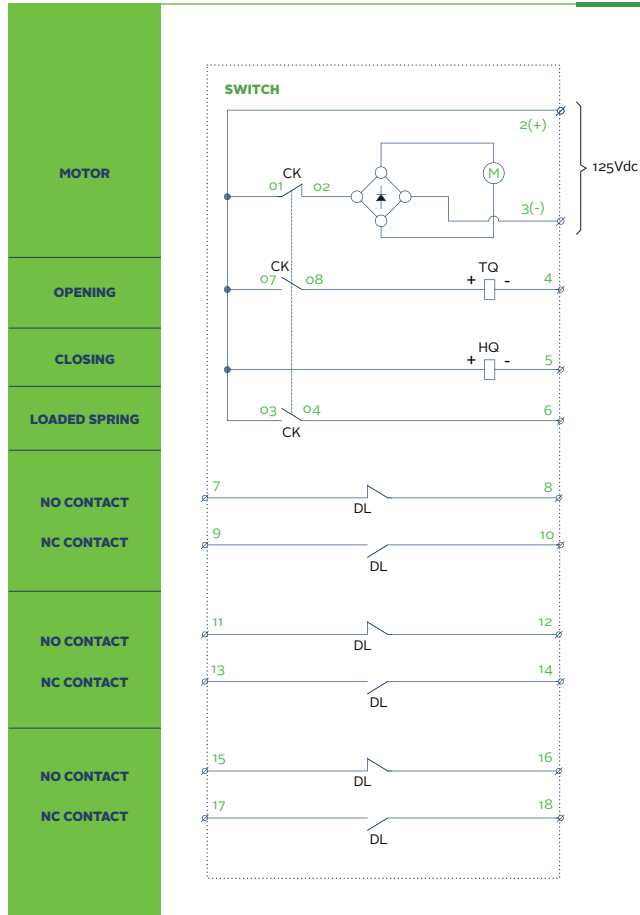
All of our switches are manufactured as per the following technical specifications:

- Room temperature: -40°C to $+85^{\circ}\text{C}$. With a daily amplitude of 25°C ;
- Installation altitude: 1,000 AMSL; (call us for higher altitudes)
- Pollution class: IV;
- Maximum wind speed: 35 m/s with no intense vibration.

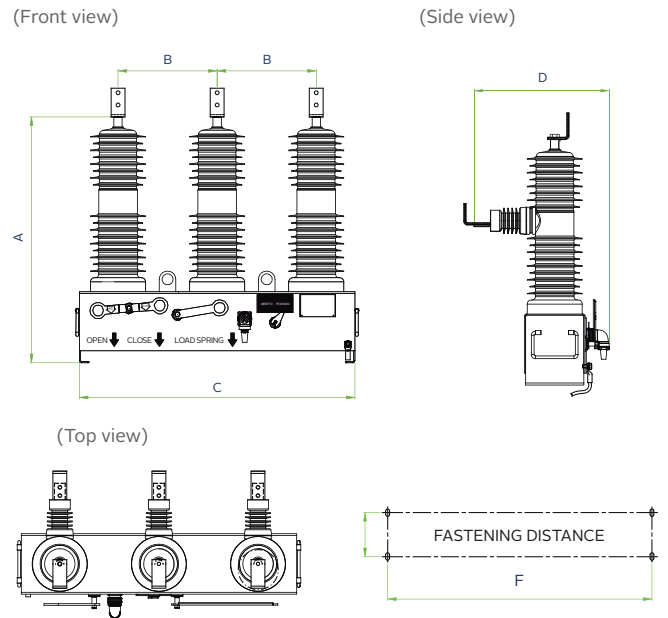


Vacuum Load-Break Switches

Command and Contact Electrical Diagram



Vacuum Load-Break Switches



NOMINAL VOLTAGE	DIMENSIONS (mm)					
	A	B	C	D	E	F
15KV with 110KV BIL	893	360	491	583	1.040	160
36KV with 170KV BIL	917	435	491	584	1.110	160
38KV with 200KV BIL	1.624	460	581	1.278	960	330

Main Technical Information of the Vacuum Load-Break Switches

No.	ITEM	UNIT	DATA			
1	Nominal voltage	kV	15	27	38	
2	Corrente nominal	A	630			
3	Nominal frequency	Hz	50/60			
4	Rated withstand voltage at nominal frequency	Dry	kV	60	79	80
		Under rain	kV	55	65	70
5	Impulse withstand voltage	kV	110	150	170	
6	Symmetrical short-circuit current (1s)	kA	25	25	31,5	
7	Asymmetrical short-circuit current (peak)	kA	65	65	81,9	
8	Maximum switching current for the capacitor bank	A	630			
9	Maximum switching current for the capacitor bank (back to back)	A	400			
10	Expected service life	-	10.000 switching operations			

