



Solid Capacitor Switch

Entec's Single/Three-Phase Solid Capacitor Switch (SPCS-27) for reactive power control, is designed for heavy-duty operation of capacitive current switching applications for unstable power line system.

The operating mechanism uses a permanent magnetic actuator that guarantees high reliability and maintenance-free operation. The magnetic force provides faster and more efficient latching action compared to mechanical force. It uses vacuum interrupters encapsulated in the epoxy bushing to arc quenching.

The bushings are made of HCEP (Hydrophobic Cycloaliphatic Epoxy) that provides excellent insulation performance even under harsh climatic environments and polluted areas. The Capacitor Switch tank and control cubicle are made of stainless steel, which have strong endurance against hot, humid, dusty, or corrosive environment.

The Capacitor Switch is supplied with a microprocessor-based controller (ETCAP121) for feeder automation. Both automatic and manual control are available.

The Capacitor Switch has been fully type tested by KERI, an accredited laboratory, according to the international standards IEEE C37.66.

HCEP(Hydrophobic Cycloaliphatic Epoxy) Bushing

- Advanced outdoor solid dielectric material
- Proven performance in heavily polluted area
- Environment-friendly, Oil/SF6 gas free
- Reliable and enhanced life expectancy
- Superior surface arc tracking resistance
- UV Protection, resistant to vandalism
- Complied with ANSI standard requirements for creepage / leakage distance

Advanced Reliability of Operation

- 50,000 times maintenance-free mechanical operations
- Vacuum technology guaranteeing 50,000 times fault-free mechanical operations
- Compliant to the highest restrike category in accordance to IEEE 37.66
- Manual / Automatic operation available
- Manual trip lever for emergency operation

Electrical ratings

Description		Single Phase	Three Phase
Rated maximum voltage [kV]	15.5	27	27
Rated current [A]	200	200	200
Operation	manual, automatic		
Frequency [Hz]	50 / 60	50 / 60	50 / 60
Short time withstand current. 1sec [kA]	4.5	4.5	4.5
Short circuit making current [kA peak]	15	15	15
Basic impulse withstand voltage [kV crest]	110	150	150
Power frequency withstand voltage, dry [kV]	50	60	60
Power frequency withstand voltage, wet [kV]	45	50	50
Operating voltage	110-220Vac / 24Vdc		
Operating temperature	-25 to 70 °C		
Control			
Power frequency withstand voltage [kV]	2		
Basic impulse withstand voltage [kV crest]	5		
Maximum operation	10,000 times		
International standard	ANSI C37.66		