Innovative SVCB

Static var Compensation Bank

Efficient and valuable alternative to traditional capacitor bank

Suitable for various small loads, such as:
office,computer center,data center,live area,UPS etc. as well as some places with complex load, rapid change and serious harmonic waves.

We make reactive power compensation and filtering device are economic, more reliable and have long service life

STANDRD POWER
An UK Power Brand
Http://standard-power.com

SPGL
STANDARD-POWER

Specification,data sheet and rate

Specification		SVCB10	SVCB15	SVCB20	SVCB25	SVCB35
		10Kvar	15Kvar	20Kvar	25Kvar	35Kvar
Electrical						
Input line voltage	U	380V ±15%				
Phase number		3-phase 4-wire;				
Capacity	Kvar	Up to 35				
Frequency	Hz	50 / 60 ± 5Hz (settable)				
Response time	Sec.	<10 ms				
Power factor correction	PF	-1 to 1 adjustable				
Parallel		Up to 8 modules				
Power losses	KW	<2.5%				
Efficiency	%	Up to 97.5				
Filter range		Up to 15th				
CT rate	A	50:5 to 10000:5,three pahse				
Transformation		RS485/RS232/Ethernet				
Contact type		EPO/DI/DO				
Display/controller		1.8 inch LCD				
Environment						
Mounting		Indoor, free from direct sunlight,dust,corrosive and combustible gases,oil mist, water vapor, dripping or salt, etc.				
Working altitude	M	<1500m				
Storage temperature	C	-40 º C to + 70 º C				
Working temperature	C	-25 º C to + 55 º C (> 40 ° C derating, more than 40 ° C, derating at the rate of 2% derating at 1 ° C)				
Humidity	%	Less than 95% RH,no water droplet condensation				
Vibration		Less than 5.9 M / S2 (0.6g)				
Degree of protectio		IP20				
Cooling		Intelligent air cooling				
Machineary						
Colour		Gray / Black (customizable)				
Dimension(WxHXD)	mm	230x388.5x88			440 x450.5x110	
Weight (Net)	Kg	7.0			12.0	

Quick selection SVCB

The reactive power compensation capacity is usually selected according to: 50% to 70% of the system capacity power transformer(or load of motor)

for example

50KVA power transformer (or motor)

The capacity SVCB is
50%-70% x 50 = 25Kvar to 35Kvar

Field test: the capacity s of SVG is jointly determined by the fundamental reactive power capacity Q1 and the wave capacity Qh required by the system

Q1: fundamental reactive capacity
Qh: harmonic capacity
S:Apparent Power transformer

$$S = \sqrt{Q_1^2 + Q_h^2}(\quad S \geq 2Q_h)$$

Comparsion of SVCB and traditional capacitor bank

Specification	Traditional capacitor bank	Static Var compensation bank
Solution		
Technology	Traditional	Hi-Tech technologies
Efficiency	Lower	The highest efficiency
Electrical		
Power factor	Not tne best	Up to 1
Step control	Need	Step less
Capacity extend	Not easy	Very easy
Response	Slow	Static,fast,real time
Parallel	Not easy	Easy
Transformation	No easy	Easy
Function		
Reactive power	Yes	Yes
Harmonic filter	No	Yes
Unbalrace agijustment	No	Yes
Single and three pahse compensation	No	Yes
Safety		
Resonance free,	No	Yes
Over-load free	No	Yes
Over-compensation free	No	Yes
Multi-data monitor	No	Yes
Mounting		
On site measuring free (suitable for all kinds loads)	No	Yes
Small volume and movable	No	Yes
Fool-in-check operation	No	Yes
Management		
Maintain free	No	Yes
Hand APP option for remote control	No	Yes
Environment		
Energy save	Traditional	Excellent

substitute SVCB
for traditional capacitor bank