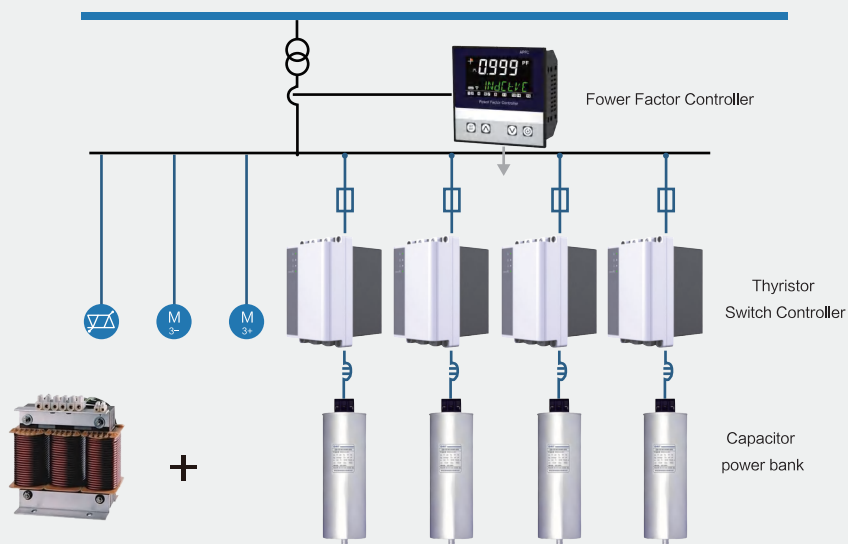




Industrial customers had facing the problem of lagging reactive power generated from inductive loads, which becomes the major causes of power and financial losses. The poor power factor may cause serious penalty from the utility. The necessary leading power can be produced by LV capacitor connected in parallel to the supply network closet o the lagging power source (like induction motors, MCC panels etc). SNA-PFC series reactive power compensation cabinet has the function to compensate the reactive power and eliminate the harmonic issued in the same time by capacitor bank and reactor with a certain reactance coefficient in a certain capacity.

Typical automatic power factor correction system diagram



The capacitors are designed to offer long time expectancy and outstanding performance with its higher electrical characteristics. A self-healing capacitor with low losses metallized polypropylene dielectric, filled with inert gas N₂. They have an over pressure disconnection system which provides a high level of safety against internal defects cutting the 3 phases.



TECHNICAL FEATURES	
Rated Voltage	230~690V
Frequency	50/60Hz
Dielectric	Polypropylene
Power tolerance	5/+10%
Temperature range	20~+60° C
Life expectancy	> 80,000hours
Standard	IEC60381

Reactors are designed to work in supply systems with a high level of harmonic distortion in such a way that they allow a safe and reliable service of the power factor correction equipment, Reactors are connected in series with power capacitors, forming a resonant circuit conveniently detuned, so that, the whole unit has an inductive impedance at the frequencies of all harmonics in the installation, These reactors are specially designed to work in series with FMLF, POLB HD capacitors.



TECHNICAL FEATURES	
Rated voltages of the main	230 / 480 V
Frequency	50/60 Hz
Rated voltages of the capacitors	260/580V
Filter type	Low tuning
Resonance frequency	189 /134Hz(7%/14%)
Inductance tolerance	± 3%
Temperature Class	Class F(155°)
Isolation level	4kV
Standard compliance	IEC60076-6

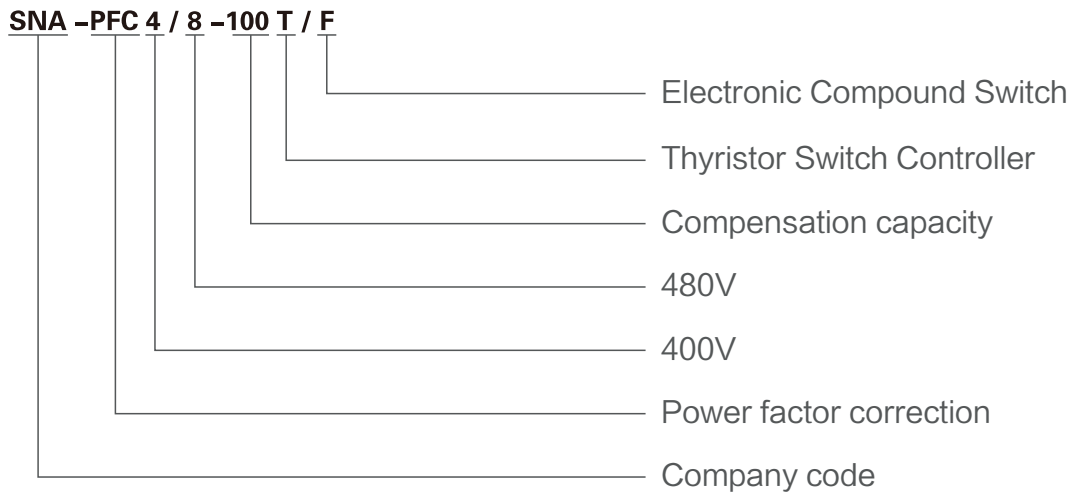


SPECIFICATION

Items	400V	480V
Rated capacity	100kvar-450kvar	
System parameters		
Withstand voltage	480V(P7)/525V(P14)	580V(P7)/625(P14)
Rated Frequency	50Hz/60Hz (-10% ~ +10%)	
Operation mode	Automatic compensation	
Wiring	3P3W/3P4W	
Performance Indicator		
Function	Reactive power compensation, Harmonic compensation (THDi ≤ 25%, THDu ≤ 4%)	
Control Switch	Thyristor Switch Controller / Composite switch	
Compensation per step	15~50kvar	
Overall response time	≤ 20ms	
Target power factor	Adjust from 0 to 0.99	
Capacitor technology	3 phase capacitors	
Capacitor tolerance	-5%~+10%	
Detuned Reactors	7%/14%	
Main incomer protection	MCCB	
Breaking capacity	Icu 35kA	
Step protection type	Overload: harmonic control / Short-circuit: main circuit breaker	
Accessibility for operation	Front	
Provide equipment	Auxiliary transformer	
Function available	Alarm contact	
Color	Grey (RAL 7035)	
Maximum weight	250kgs	
"Dimension(W*H*D)mm"	1000*1000*2000mm	
Environment		
Mounted location	Indoor	
IP degree of protection	IP20 IP30 IP40	
Relative humidity	0~95%, non-condensing	
Operation altitude	≤ 2000m	
Operation temperature	-5~45° C	
Ambient temperature	Up to 50° C	
Certification & Standard		
Certification	CE	
Standard complication	IEC61921:2017, IEC61439-1/2	



MODEL SELECTION



Model number	Capacity (kvar)	Compensation	Steps	Incomer current(400V/480V)
SNA-PFC4/8-100T/F	100	25+25+50	4*25	150/200A
SNA-PFC4/8-150T/F	150	25+25+2*50	7*25	225/300A
SNA-PFC4/8-200T/F	200	50+50+100	4*50	300/400A
SNA-PFC4/8-250T/F	250	50+2*100	5*50	375/500A
SNA-PFC4/8-300T/F	300	50+50+2*100	6*50	450/600A
SNF-PFC4/8-350T/F	350	50+3*100	7*50	525/700A
SNF-PFC4/8-400T/F	400	4*100	4*100	600/800A