SPGLMP Mulit-Protection Capacitors

SPGL



General

Series SPGL low voltage capacitors were designed to compensate the reactive energy and the line loss in power networks up to 1000V and with permisson of harmonic content.

Application

- Automatic power factor correction (PFC) and capacitor banks
- •Individual solution for fixed power factor correction (e.g. Motor, power transformers, lighting etc.)
- Group fixed power factor correction (several equipment connected in agroup)
- Capacitor banks of tuned and detuned
- Harmonic trap applications (e.g. UPS, frequency drives and converters etc.)
- Special application such as outdoor mounting, filter model, bushing terminal style etc.

Benefit Electrical

- Highest pulse current withstand capability
- Corona-free
- Very low losses
- Internal discharge resistor
- Terminal for high capacity cables (up to 16 to 32mm²) , both side of the terminal can be used

Mounting

- Compact volume
- Low weight & height
- Maintenance-free
- Reduce mounting costs
- Any position mounting is available on request

Safety

- Dry type design
- Self-healing
- Over-pressure and overcurrent tear off
- Non-flammable
- Touch-proof terminals
- Three cascade cylinder sealing & one form capacitor cane,no possibility for leaks

Environment

- No pollution & PCB free
- •Friendly manufacture
- Recyclable
- Save energy and reduce carbon dioxide emission

Additional function

- Pole mounting
- Element of square Cap. of SPGLMP Box capacitors
 SPGLMP Fixed capacitors

Innovative design

- Multi-Protection capacitor
- •3P/4Line capacitor

Order example:

SPGLMP440-3-30

SPGLMP innovative capacitor

•Rate voltage: 440V

Phase: three

Rate power: 30kvar

protection terminal



SPGL MP Mulit-Protection Capacitors

SPGL

Protecting style:

- Automatic alarm or cutting off function when the capacitor fails or over-heats.
- System or system step cut off and reset automatically when the capacitor internal temperature exceeds the limit during operation.

In addition, because of its excellent appearance, the SPGLMP Multi-Protection power capacitor also has some other device designation as shown below:

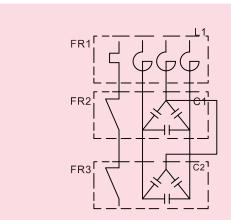
- New and exactly compensating capacitor
- New and accurately/detuning filtering capacitor
- Good quality capacitor
- •Low running cost capacitor

In a word, the new SPGLMP is a really safe and durable capacitor.

Technical Data Multi-Protection Terminal

Rate voltages	Un	220V±10%
Rate current	In	5A
Failure protection		Automatic alarm or cut-off
Over heating		max. 80-100°C, automatic cut-off and re-new action
Permissible max. humidity	Hrel	95%
Maximum permissible altitude		2000m above sea level
Cable connection		Threaded M6 stud on bottom of case
Degree of protection		IP20
Terminals		Dual, with electric shock protection, max. cross- section 10 ² mm cable

Electric connection of SPGL multi-protection power capacitors in the detuned system



SPGL MP Mulit-Protection Capacitors

SPGL

Application solutions

Plan A

Capacitor's linkage system connects with contact's coil in series to protect the original tuning rate or filter accuracy system step(L+C) and devices in circuits.

Plan B

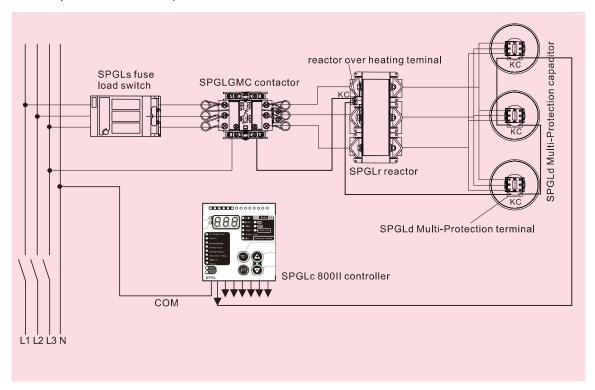
Capacitor's linkage system connects with the controller's public terminal in series to protect the original tuning rate or filter accuracy system group(L+C) devices in circuits.

Plan C

The capacitor's linkage, reactor's tem-perature protecting device and contact's coils connect in series in order to protect the safety of circuits. Whatever the capacitor or reactor failures, the system will interrupt the current from contact's coils and cut off the broken circuits.

Plan D

The capacitor over-temperature or failure alarm.



SPGLMP Mulit-Protection Capacitors

SPGL

General technical data

Over Voltage	U	Un+10%(up to 8h daily)/Un+15%(up to 30 min daily).Un+30%(up to 1 min)
Over Current	Imax	Min.1.3In(in certain cases higher)
Inrush Current	ls	200 times rated current(other request is available)
Losses (Dielectric)		≤0.20W/KVar
Capacitance Tolerance	Cn	-5%+5%
Test Voltage Terminal to Terminal	UTT	2.15Un, AC, 10s
Test Voltage Terminal to Case	UTC	Up to Un≤660V:3000VAC, 10s;above Un>660V: 6000 VAC, 10s
Life Expectancy	TLD(CO)	100,000 to 130,000 operating hours
Ambient Temperature Category	LCT/UCT	-25/D, Max. 55°C with forced cooling conditions higher ambient temperature possible.
Cooling		Naturally air-cooled (of forced air cooling)
Permissible Max Humidity	Hrel	95%
Maximum Permissible Altitude		Normal 1000 m above sea level (Max.3000m)
Mounting Position		Normal stand mounting, any position mounting is available on request.
Mounting and Grounding		Threaded M12 (or M16) stud on bottom of case
Safety Features		Dry technology, overpressure/current disconnector, self-healing
Discharge Resistors		Internal discharge module design included in delivery, (<75V within 3 min)
Case		Extruded aluminium can without any impress
Degree of Protection		IP20, indoor mounting (optionally with cover for IP55)
Outdoor using		With the plastic cover, IP55, the capacitors diameters from 90mm to 116mm
Impregnation		Non-PCB, special protection gas with resin.
Terminals		Dual, with electric shock protection, max, cross- section 16 mm cable
Installation		Indoor and outdoor (with the cover)
Outdoor mounting		Capacitor diameter ≥90mm
Standards		IEC60831-1(2), EN60831-1(2), VDE0560-46(47), CE.(UL marking on request)

Outdoor/Pole mounting

Mounting		With the plastic protective cover for terminal
Protection class		IP55
Ambient Temperature category	LCT/UCT	Normal 50°C,Max.60°C
Connection cable		Standard 0.5M
Mounting plant		Are available on request