



## 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:**

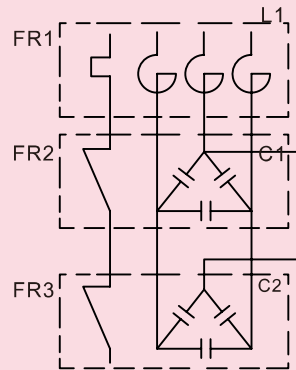
- New and exactly compensating capacitor
- New and accurately/detuning filtering capacitor
- Good quality capacitor
- Low running cost capacitor

**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 <sup>2</sup> mm cable

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



## 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

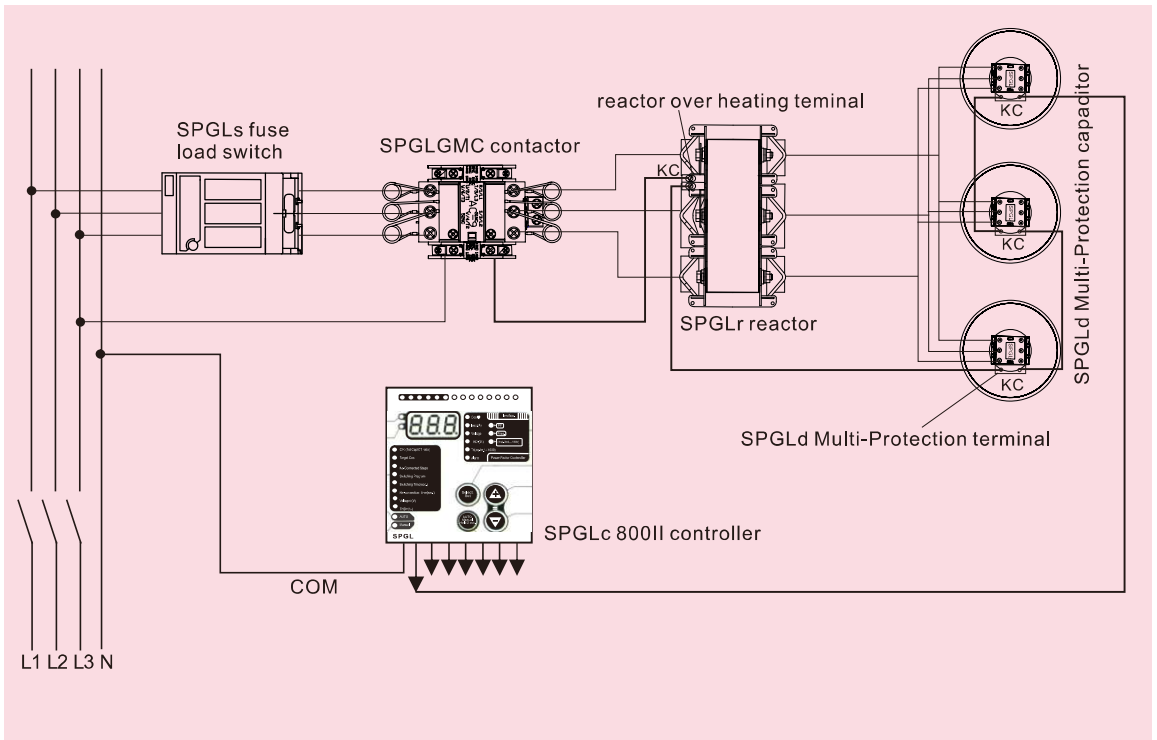
Capacitor's linkage system connects with the controller's public terminal in series to protect the original tuning rate or filter accuracy system group(L+C) devices in circuits.

### Plan C

The capacitor's linkage, reactor's temperature 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.



## 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	I <sub>max</sub>	Min. 1.3I <sub>n</sub> (in certain cases higher)
Inrush Current	I <sub>s</sub>	200 times rated current(other request is available)
Losses (Dielectric)		≤0.20W/KVar
Capacitance Tolerance	C <sub>n</sub>	-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	H <sub>rel</sub>	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 disconnecter , 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