

General

Series SPGL low voltage capacitors in cylindrical aluminum case were designed to compensate the reactive energy power line loss as well as harmanic filter in power networks up to 1000V. With three capacitor elements internally wired in a delta or star connection, SPGL series capacitor is intended to increase packing density per bank and cut component costs. Improved thermal response and simplified installation are advantages of the cylindrical aluminum case capacitor.

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, wind power etc.

Benefit

Electrical

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

Environment

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

Mounting

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

Additional function

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

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

Innovative design

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

Specification of order series

SPGL440-3-30

- •SPGL capacitor
- •Rate voltage: 440V
- Phase: three
- •Rate power: 30kvar

SPGLw440-3-25 SPGLw outdoor/pole mounting

- capacitor
 •Rate voltage: 440V
- Phase: three
- •Rate power: 25kvar

SPGL230-3/4-15

SPGL 3phase 4wire capacitor

- Phase: delta or star
- Rate power: 15Kvar

SPGL230-1-10

SPGL single phase capacitor

- •Rate voltage: 230V
- Phase: single
- •Rate power: 10kvar

SPGLd440-3-20

SPGLd Multi-Protection capacitor

- •Rate voltage: 440V
- •Phase: three
- •Rate power: 20kvar

SPGLCLMd440-3-100 SPGL square capacitor

- Phase: three
- •Rate power: 100Kvar

SPGL Low Voltage Capacitor

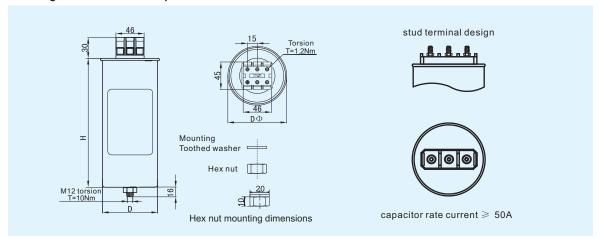
Specification

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 _{max}	Min.1.3In(in certain cases higher)	
Inrush Current	Is	200 times rated current(other request is available)	
Losses (Dielectric)		≤0.20W/kvar	
Capacitance Tolerance	Cn	-5%+5%	
Test Voltage Terminal to Terminal	Uтт	2.15Un, AC, 10s	
Test Voltage Terminal to Case	Uтc	Up to Un≤660V:3000VAC, 10s;above Un>660V: 6000VAC, 10s	
Life Expectancy	TLD(co)	100,000 to 150,000 operating hours	
Ambient Temperature Category	Lcт/Ucт	-25/D, Max. 55℃, with forced cooling conditions higher ambient temperature on request	
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	
Outdoor using		With the plastic cover,IP55,the capacitors diameters ranges are 96mm to 116mm	
Impregnation		Non-PCB, special protection gas with resin.	
Terminals		Dual, with electric shock protection, max, cross-section 32 mm ² cable	
Installation		Indoor and outdoor (with the cover)	
Standards		IEC60831-1(2), EN60831-1(2), VDE0560-46(47), CE.(UL marking on request)	

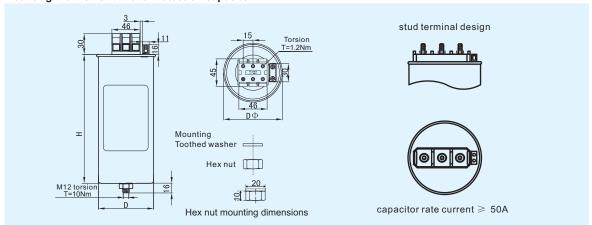
Outdoor/Pole mounting

• • • • • • • • • • • • •		
Mounting		With the plastic protective cover for terminal
Protection class		IP55
Ambient Temperature category	Lcт/Ucт	Normal 50°C,Max.60°C
Connection cable		Standard 0.5M & 1M
Mounting plant		Are available on request

Mounting draw SPGL series capacitor



Mounting draw SPGLd Mulit-Protection capacitor



Outdoor/Pole mounting:

Outdoor/pole mounting is available by the plastic protective caps to protect the capacitor terminals from accidental contact or the influence of dust and water. In general, protective caps for design capacitors with diameters 96mm to 116mm are fixed to the capacitors. In that case, cable and internal discharge device are also fitted(0.5m or 1m) to give an IP55 rating. Order No: SPGLw

for the capacitor diameter	standard cable lenght	series No.
Ф96	0.5m or 1m	SPGLw
Ф116	0.5m or 1m	SPGLw

