Elektrizität

SGC low voltage shunt capacitor

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Product Usage

It is mainly used to compensate the reactive power of the inductive load of the power system to improve the power factor , improve the voltage quality and reduce the line loss . The single-phase shunt capacitor is mainly composed of the core , the shell and the outgoing line structure . The metal foil (as the plate) is stacked and wound together with the insulating paper or plastic film. Several components, insulating parts and fasteners are pressed together to form the capacitor core and impregnated with insulating oil. The lead wires of the capacitor plates are connected in series and parallel to the outgoing line connecting piece at the lower end of the outgoing line porcelain bushing. The metal shell of the capacitor is filled with insulating dielectric oil.

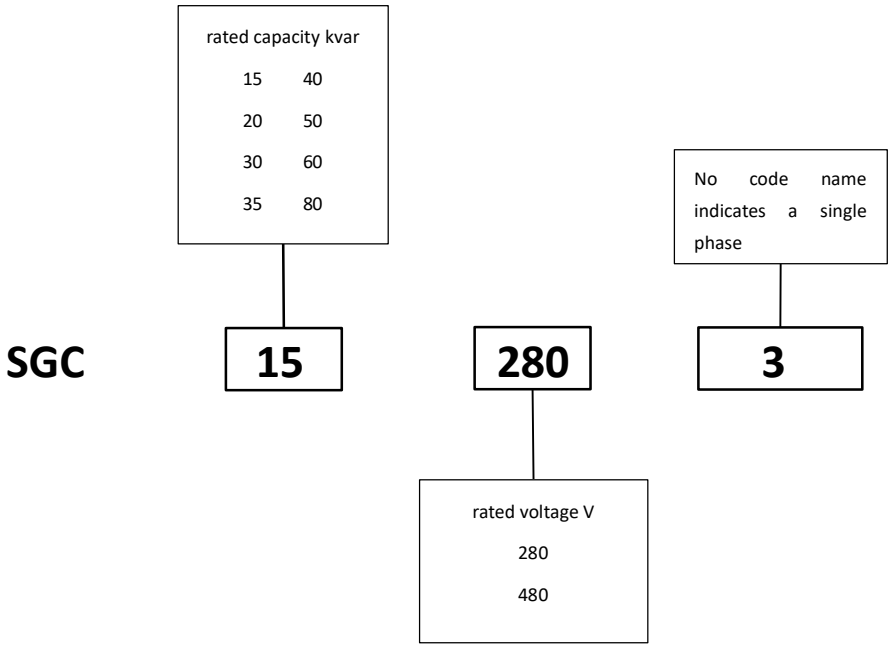
Features

1. Small size, light weight, good specific characteristics;
2. Low loss, low heat generation and low temperature rise;
3. Excellent self-healing ability improves the reliability and life of the product;
4. Built-in discharge resistor and unique safety device. When a fault occurs inside the capacitor, the safety device can automatically disconnect it from the power supply to avoid the accident from expanding;
5. Excellent production technology, using epoxy casting;
6. The capacitor elements are aged with a high current of 200IN, which improves the operational reliability of the capacitor.

Normal use conditions

1. Indoor use: altitude below 2000m;
2. Temperature category: -25/B; humidity: less than 85%;
3. Installation location: It should not be exposed to direct sunlight, rain or snow, and should avoid dust and vibration. When installing more than two capacitors, the distance between them should be greater than 30mm; when the ambient temperature is high in summer, effective measures should be taken to ensure good ventilation and heat dissipation.

Quick Selection Table



Technical Parameters

model	Rated voltage V	Rated capacity kvar	Rated frequency Hz	Rated capacitance μ	Rated current A
SGC-15/480-3	480	15	50	207	18
SGC-20/480-3	480	20	50	276	24.1
SGC-30/480-3	480	30	50	414.7	36.1
SGC-35/480-3	480	35	50	484	42.1
SGC-40/480-3	480	40	50	552.9	48.1
SGC-50/480-3	480	50	50	691.1	60.1
SGC-60/480-3	480	60	50	829.4	72.2
SGC-80/480-3	480	80	50	1105.8	92.2

model	Rated voltage V	Rated capacity kvar	Rated frequency Hz	Rated capacitance μ	Rated current A
SGC-15/280	280	15	50	135	11.9
SGC-20/280	280	20	50	271	23.8
SGC-30/280	280	30	50	406.2	35.7
SGC-35/280	280	35	50	474	41.7
SGC-40/280	280	40	50	541.6	47.6
SGC-50/280	280	50	50	677	59.5
SGC-60/280	280	60	50	812.4	71.4
SGC-80/280	280	80	50	1083.2	95.2