

SGT thyristor switching switch



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Product Usage

The thyristor switching switch adopts high-speed CPU measurement and control, pulse transformer high-reliability triggering, multiple monitoring and protection schemes (current, temperature, phase loss, breakdown real-time monitoring protection) and fast switching technology. Regardless of the residual voltage of the capacitor, the capacitor branch can be switched in real time and without impact, with a response time of 0-15 milliseconds. It is the best product to replace AC contactors and composite switches.

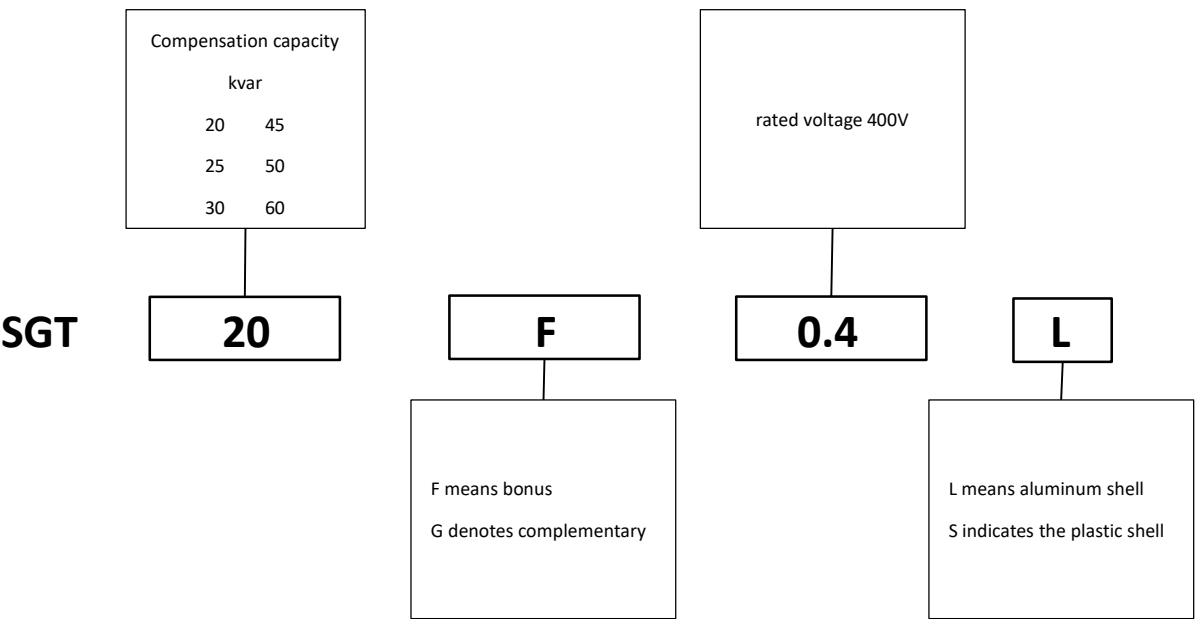
Features

- 1. Real-time fast switching, repeated switching time is less than 15ms;
- 2. Independent research and development, high-frequency pulse triggering, stable and reliable;
- 3. Adopt imported thyristor modules, which have a long overall service life;
- 4. With current, temperature detection and display functions;
- 5. It has intelligent over-current protection, temperature protection, phase loss protection, thyristor breakdown protection, alarm and other functions;
- 6. Different status indications can be given according to the fault type to facilitate troubleshooting;
- 7. It can provide single-phase compensation, interphase compensation and three-phase compensation, suitable for different applications;
- 8. The capacitor does not need to be discharged. Regardless of the residual voltage of the capacitor, the capacitor branch can be put into operation in real time and without impact. The current is disconnected when it passes through the zero point, and no closing surge current is generated.

Normal use conditions

- 1. Working temperature -25℃~60℃;
- 2. Altitude: <2000M, humidity: 95% relative humidity.

Quick Selection Table



Technical Parameters

1. Rated voltage: 230V~800V, 50/60Hz;
2. Rated power: 15kvar-60kvar, can choose to connect the reactor with 7%/14% reactance in series
3. Overload capacity: 1.5 times I_n per minute;
4. Use place: any place, dust and moisture proof;
5. Based on standards: IEC60439, IEC146.

Switch classification	Switch Model	Rated Capacity	Capacity of distribution capacitor
Common complementary type Δ external	SGT-20G-0.4/L(S)	20	$\leq 20\text{kvar}$
	SGT-30G-0.4/L(S)	30	21~30kvar
	SGT-40G-0.4/L(S)	40	31~40kvar
	SGT-50G-0.4/L(S)	50	31~50kvar
	SGT-60G-0.4/L(S)	60	51~60kvar
Commonly complemented type Δ external 660V	SGT-50G-0.66/L(S)	500	50kvar
	SGT-100G-0.66/L(S)	100	100kvar
	SGT-200G-0.66/L(S)	200	200kvar
Common complementary type Δ internal	SGT-50N-0.4/L(S)	50	45~50kvar
	SGT-75N-0.4/L(S)	75	51~75kvar
Split-compensation Y connection	SGT-15F-0.4/L(S)	15	$\leq 3*5\text{kvar}$
	SGT-30F-0.4/L(S)	30	$\leq 3*10\text{kvar}$
	SGT-45F-0.4/L(S)	45	3*15kvar