



SGP90xxx

SGP Series Circuit Breakers TECHNICAL DESCRIPTION

Stinger SGP90xxx series circuit breakers are an excellent choice for circuit protection when the ability to easily set/reset/defeat the circuit is desired. The SGP90xxx series are perfect for applications where transient loads will meet or even slightly exceed the load rating (based on time duration, see chart #1).

The load capability of the breaker is also temperature dependent and will affect the load break point and should be taken into consideration during system design. (see chart #2)

SGP90xxx series breakers have very predictable characteristics that can be forecasted based on amperage load, duty cycle and ambient temperature.

Audio System Example:

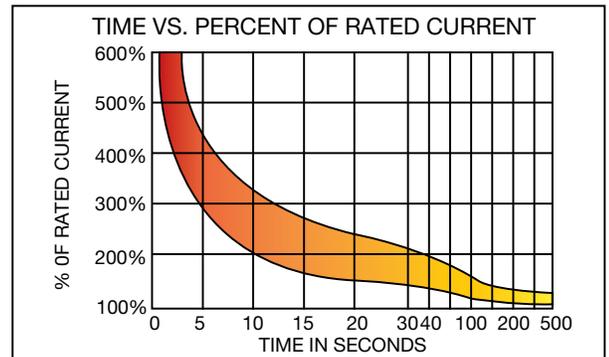
In a typical installation in an audio application where the breaker will be protecting an amplifier circuit. The transient characteristics of music will see an amplifier load swing drastically between min and max of the system when driven hard. An amplifier that has a full amperage of 150A may swing as high as 180A + and as low as 2A during use. This will work out to an average close to half the fuse rating of the amplifier (75A) and is well within the range of the circuit breaker (if 150A was selected) to allow for continuous playing of this system. If there is an issue with the system, a spike with a longer duration (fault) will trip the breaker and protect the system.

Extreme Audio System/ Constant Load Example:

In an extreme audio installation or other constant load application the capacity of the circuit breaker will decline in direct relation to the time and size of the load, referencing chart #1. This would apply to other similar situation like use of inverters and other constant load devices.



CHART#1



CHART#2

