



CLASS T & I²T FUSES

FUSE SELECTION

Control Concepts approves the use of fast acting Class T fuses for the protection of Silicon Controlled Rectifiers (SCR's). Bussmann type JJN or type JJS are examples of Class T fuses.

Our experience has shown that Class T fuses provide adequate protection for SCR's while exhibiting fewer "nuisance" failures than semiconductor (I²T) fuses.

Our conclusions regarding fuses and protections of SCR's are:

Class T fuses provide a reliable, cost effective solution for the protection of the SCR and the load.

Class T fuses are typically less expensive and more readily available than I²T fuses.

Class T fuses are "UL listed" for branch service protection, I²T fuses are not.

I²T fuses exhibit the tendency to fatigue fail, resulting in nuisance shutdowns.

I²T fuses provide better protections of the SCR than Class T fuses.

I²T fuses provide equal or better protection for the load and wiring than Class T fuses.

I²T fuses are expensive, often equal to the cost of the SCR being protected.

The use of fast acting fuses to protect the SCR and the load and wiring is always recommended. Sizing of fast acting fuses, whether using Class T or I²T should be approximately 125% of the known maximum load current or the SCR controller current rating.

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