Electrical equipment SCCR and Fuse protection:

If you choose not to perform a fault current calculation to determine the actual fault current at your equipment, the following parameters provide the fuse types that need to be installed to protect equipment with a short circuit current rating (SCCR) of 5K or if the equipment SCCR is unmarked. Prior to a final on your permit, you will need to provide a signed statement on company letterhead providing the service size and voltage, the minimum circuit ampacity of the equipment and wire size, along with the fuse type installed. If anything other than a fused disconnect with a Class RK5 fuse is required based on the information below, a permanent label will also be required at the disconnect or junction box housing the fuse block stating:

“Replacement fuses must be Class _____ only.”

Attention:
The following parameters are based on 3 phase services only. They are not guaranteed to work for single phase or Delta bank services. When you encounter these, you will need to do a fault current calculation. If you choose not to use one of the following default parameters, you need to do a fault current calculation. You will be required to provide a signed statement on company letterhead providing the service size and voltage, the type, size and quantity of service conductors, the wire type and size of conductors to any intervening panels or transformers, and the minimum circuit ampacity of the equipment and wire size along with the fuse type if any that is required prior to final. The letter must also state the available fault current at the unit. If anything other than a fused disconnect with a Class RK5 fuse is required based on your information, a permanent label will also be required at the disconnect or junction box housing the fuse block stating:

“Replacement fuses must be Class _____ only.”
Downtown Network Area: 2000-amp or smaller service at 208-volt and any equipment with a minimum ampacity and wire not greater than 200-amps. You can protect this equipment with a Class T fuse. If the unit is small enough, other classes of fuse protection could be used you would need to do a calculation to determine your specifics if you want to use something other than a Class T.

Downtown Network Area: 1000-amp or smaller service at 208-volt and a piece of equipment with a minimum ampacity and wire not greater than 100-amp, you can protect equipment with any of the following fuse types: Class R (RK5 or RK1), Class J, Class T, Class G, or Class CC/CD.

Downtown Network Area: 600-amp or smaller service at 480-volt and a piece of equipment with a minimum ampacity and wire not greater than 60-amp, you can protect the equipment with any of the following fuse types: Class R (RK5 or RK1), Class T, Class J, Class G, or Class CC/CD.

All areas not within the downtown network area: 2000-amp or smaller service at either 208-volt or 480-volt, and equipment with a minimum ampacity and wire not greater than 100-amp, you can protect with any of the following fuse types: Class R (RK5 or RK1), Class T, Class J, Class G, or Class CC/CD.