Name	Date		
Period			

Engineering Technology Department

Overcurrent Protection

is any cu of equipment or the ampac may result from an	rrent load in exce	ess of the safety rating Overcurrent				
may result from an	, a	, or a				
Overcurrent does not always cause a fire.						
Over current	_is protection aga	ainst				
It generally operates instar	•	•				
500% and 1000% of full-lo						
current protection circuit instantly. overload.	the overload	protection and opens the				
Overload protection is protection is protection in the curve where the current increases.	ad protection typic	cally operates on an				
A (someti	mes abbreviated	to short or s/c) is an				
electricalthat	allows a current to	o travel along an				
unintended path with no or	•					
a short circuit in residential						
the condu	ictor to a grounde	a conductor.				
A is	s an inadvertent c	ontact between an				
energized conductor and _	or equi	pment frame. The return				
path of the fault current is	through the grour	nding system and any				
personnel or equipment ca	in become part of	that system.				

Protective Devices

Overcurrent protection devices include fuses and circuit breakers. Both are manufactured in various shapes and sizes, but all are designed to stop the flow of current should it exceed safe limits.

______- A fuse interrupts an excessive current so that further damage by overheating or ______ is prevented. Wiring regulations often define a maximum fuse current rating for particular circuits. Fuses are typically made for single time use.



A	is an automatically operated electrical switch
designed to protect an	electrical circuit from damage caused by
	Its basic function is to
interrupt current flow a	after protective relays detect a fault. Unlike a
fuse, which operates of	once and then must be replaced; a circuit
breaker can be	(either manually or automatically) to
resume normal operat	ion.



