

NAME: IDOWU OCJ

WEEK:FOUR

SCHOOL: STA.

CLASS: SS 1

SUBJECT: ELECTRICAL INSTALLATIONS

TOPIC: CIRCUIT BREAKER

Circuit

breaker is a mechanical device for making and breaking a circuit under normal and abnormal conditions such as short circuit. A circuit is broken automatically and not manually. Circuit breaker

could be manufactured as single phase or 3 phase systems with manual or remote control.

TYPES OF CIRCUIT BREAKER

(1) miniature circuit breaker

(2) oil

circuit breaker

(3) air circuit breaker

(4) vacuum circuit breaker

COMPONENTS OF CIRCUIT BREAKER

(1) switching mechanism

(2) phase barriers

(3) insulated case

(4) Trip units

(5) contact saddle with gang operated contact

holders

CONTACTORS: This is an electrically controlled switch used for switching a

power circuit.

Contractors are used to control electric motors, lighting, heating,

thermal evaporator and other electric loads.

FUSE TERMINOLOGY

current rating: This is the

maximum current the fuse will carry continuously without blowing or undue deterioration.

FUSING CURRENT: This is the minimum current at which the fuse will blow in a specific time.

FUSING FACTOR: This is the relationship between the current rating and the fusing current of a fuse.

Note: the fusing factor is always greater than one. The fusing current is higher than the current rating.