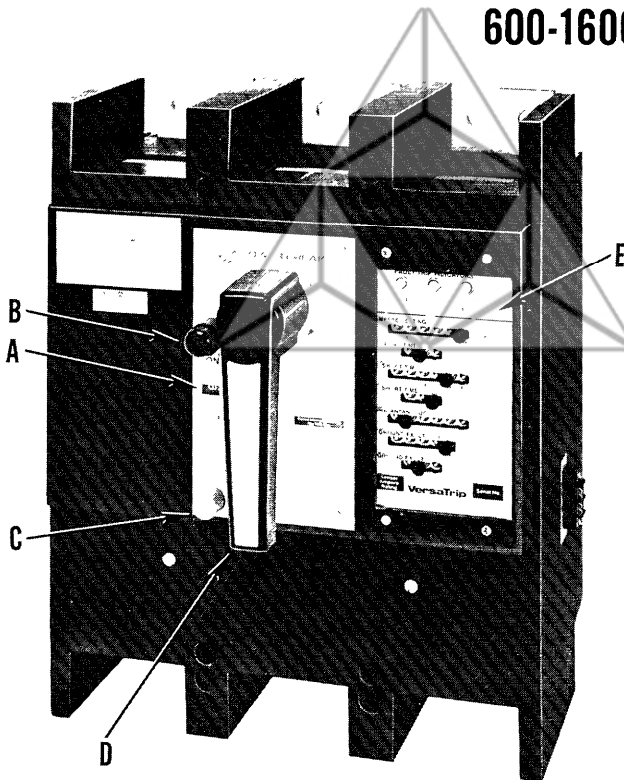




## MANUAL QUICK-CLOSE BREAKERS 600-1600A FRAMES



**A Indicator**  
"OFF" Green; "ON" Red; "CHARGED" Yellow

**B Breaker "ON" Button**  
Push to turn breaker "ON"

**C Breaker "OFF" Button**  
Push to turn breaker "OFF"

**D Charge Handle**

**E Removable protective programmer cover.**  
(Solid state breakers only).

Fig. 1. 1600A Frame shown

### DESCRIPTION

The Manual Quick-Close Power Break Breaker provides 5-cycle closing capability in a manual frame construction. This is accomplished by interposing a stored energy mechanism between the charging and closing functions.

To close the breaker's main contacts, a CHARGE cycle must first be initiated. This is done manually by sequencing the handle (D). The breaker is now in a "ready" state. Depressing the ON button (B) or energizing an optional closing solenoid (Fig. 3),

closes the breaker's main contacts. The OFF push-button (C) or a remote tripping function may be used to open the breaker. The breaker's state is indicated at (A) as OFF (green), ON (red) or CHARGED (yellow).

The optional remote tripping function may be in the form of a shunt trip or undervoltage release.

**CAUTION:** Do not trip the breaker from a charged position. Equipment damage may result.

TABLE 1 — SEQUENCE OF OPERATION

Indicator (A)	Main Breaker Contacts	Condition of Charging Springs	Permissible Operating Function
Off	Open	Discharged	Mechanism may be Charged
Charged	Open	Fully Charged	Contacts may be Closed
On	Closed	Discharged	Contacts may be Opened

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the General Electric Company.

## OPERATING INSTRUCTIONS

1. With Circuit Breaker OFF the mechanism may be manually charged by rotating the handle 120° counterclockwise followed by 120° clockwise rotation. The handle will not turn the breaker on.

### 2. With Mechanism CHARGED

- Breaker contacts may be remotely closed by energizing an optional closing solenoid (Fig.3).
- Breaker contacts may be closed manually by pushing the "ON" button (Figure 1) on the breaker escutcheon.

**CAUTION:** Do not trip the breaker from a charged position. Equipment damage may result.

### 3. With Circuit Breaker CLOSED

- Breaker contacts may be opened remotely by energizing shunt trip device or de-energizing undervoltage release device.
- Breaker contacts may be opened manually by pushing the "OFF" button (Figure 1).

## APPLICATION DATA

### Closing Solenoid

TABLE 2

Rated Voltage	Operating Voltage Range	Close Solenoid (Peak Amperes)	Maximum Close Time (seconds)	Maximum Opening Time (seconds)
120Vac (50/60HZ)	102-132	3.3	.083	.050
240Vac (50/60HZ)	204-264	1.7	.083	.050
24Vdc	19-29	13	.083	.050

## PADLOCKING ACCESSORY

The breaker "ON" button may be padlocked in a retracted position as shown in Fig. 2 if supplied with optional padlocking accessory.

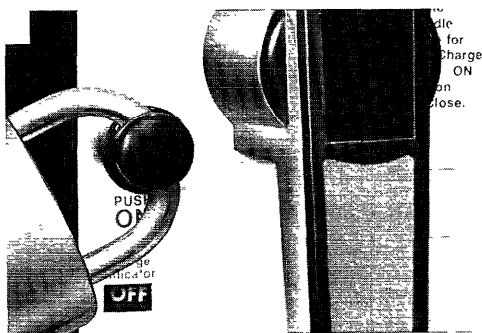
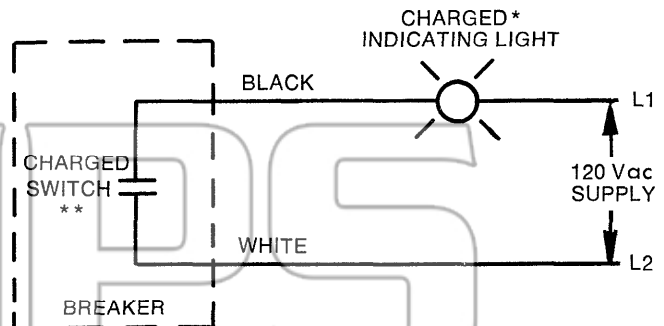
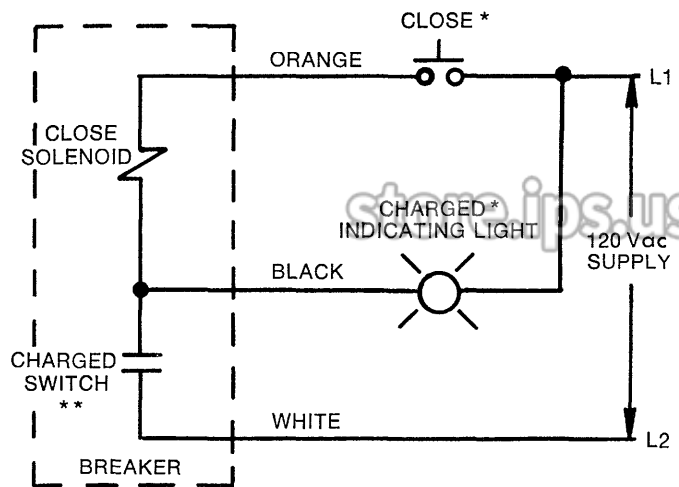


Fig. 2

## WIRING DIAGRAMS



For breakers supplied with remote charge indication accessory.



For breakers supplied with remote close and charge indication accessory.

Fig. 3

\*Customer supplied.

\*\*The remote charge indicator switch is rated 15A.— 250 Vac and 1/2 A.— 125 Vdc.