



# Type HPC High Pressure Contact Switch

## 800-4000 Amperes

*For Switches with Integral Ground Fault Options, see GEH-4394.*

### APPLICATION INFORMATION

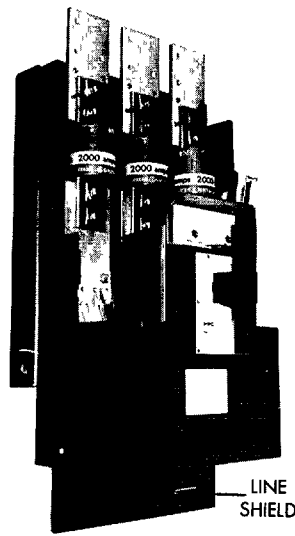
Data	HPC Switch Ampere Ratings				
	800-1600A	2000A	2500A	3000A	4000A
Outline Drawing	139C4219	139C4114 sh 2	139C4114 sh 3	139C4114 sh 3	139C4114 sh 6
Approx. Shpg. Wt.	85 lbs.	190 lbs.	205 lbs.	205 lbs.	429 lbs.
Approx. Net Wt.	75 lbs.	165 lbs.	180 lbs.	180 lbs.	505 lbs.
Connectors Cat. No.	①	TS20FCA (Optional)	TS25FCA (Optional)	TS30FCA (Optional)	1-TS40LFCA ① 5-TS40FCA ①

### LIFTING INSTRUCTIONS

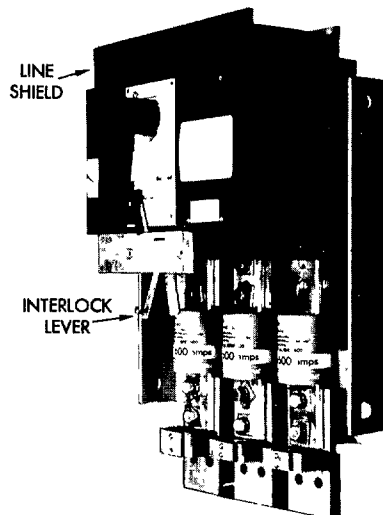
These instructions and the packaging of this switch are designed to aid you with a quick, easy and safe removal and mounting of the switch. Adhere carefully to these instructions for protection of personnel and switch.

#### IMPORTANT

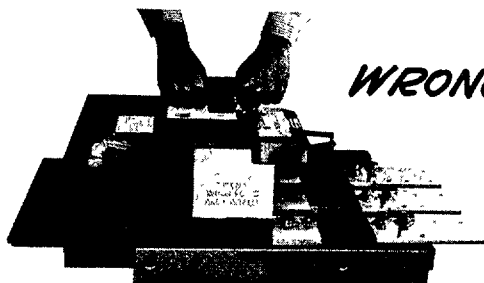
1. Under no circumstances should the switch be lifted by the handle.
2. Do not remove cardboard guard until fuses are installed.



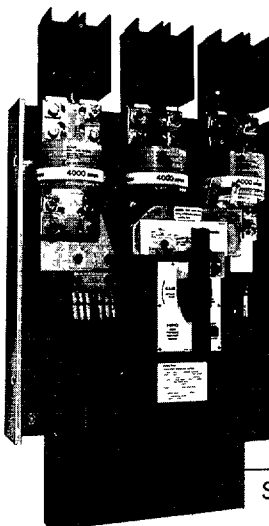
BOTTOM FEED  
2000A THPC



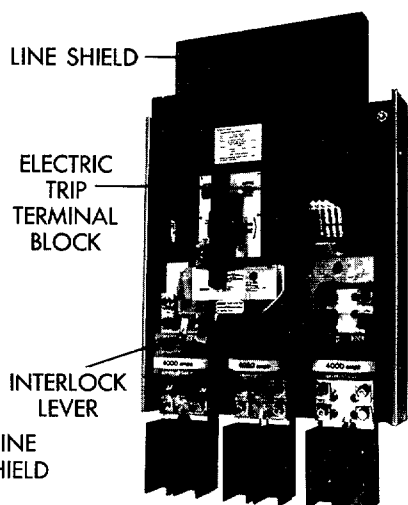
TOP FEED  
1600A THPR



**WRONG**

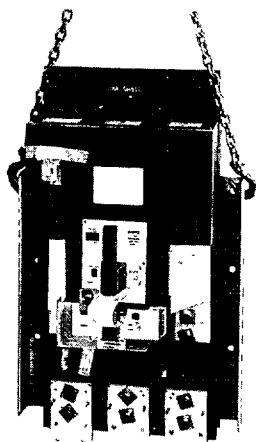


BOTTOM FEED



TOP FEED

4000 Amperes



**RIGHT**

1. Remove (4) bolts holding switch to pallet.
2. Lift switch into mounting position with hooks placed in lifting holes in side plates.

*Do not attempt to lift switch horizontally by using only diagonally opposite lifting holes.*

*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.*

## INSTALLATION

Mount in enclosure and leave cardboard guard in place until fuses are installed.

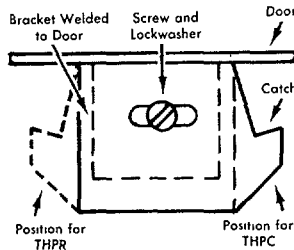
## ELECTRICAL CONNECTIONS

Remove Line Shield to expose connections. Replace after making connections.

## ASSEMBLING INTERLOCK CATCH

The interlock catch should be so positioned that:

1. When the switch is ON and the door is CLOSED, the interlock catch should engage the interlock lever on the switch, preventing the door from being opened.
2. When the switch is ON and the door is OPEN, the door can easily be reclosed.



## INTERLOCK ADJUSTMENT

Screw B should be so adjusted that:

1. When the door is closed, Lever A, Figure 1, is approximately parallel with surface D, Figure 2.
2. Screw B does not prevent the door from closing all the way.

If it is necessary to move screw B, loosen nut C, move the screw and retighten nut C.

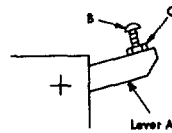


Figure 1

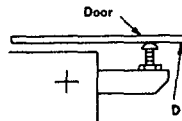


Figure 2

## PERFORMANCE CHECKS

To verify that interlocks are operating properly, perform following checks:

1. With switch OFF, door should open easily.
2. With door OPEN, operate switch. It will make a noise, but contacts should not close (indicator will show OPEN).
3. With door CLOSED, operate switch. Switch should close normally.
4. With switch ON, interlock should prevent door from being opened.
5. With switch ON, defeat interlock by inserting a tool in slot in nameplate, and open door. Door should reclose easily without defeating interlock.

## ELECTRIC TRIP — Optional

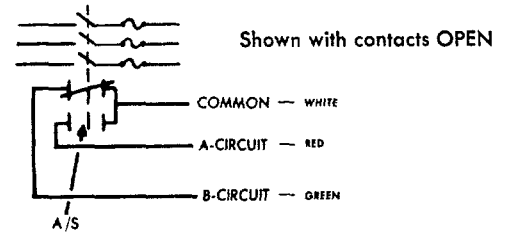
For rating, see label adjacent to Terminal Block.

Connect two wires to terminal block connectors numbered 36 and 37.

Cat. No.	Voltage Rating	Max. Inrush Current
ET1	120/240VAC	4.5 Amp
ET2	480VAC	2.6 Amp

## AUXILIARY SWITCH — Optional

Make control connections to the terminal block.



## INSTALLATION OF FUSES

Install each fuse with the connection bolt and washer assemblies supplied with the switch.

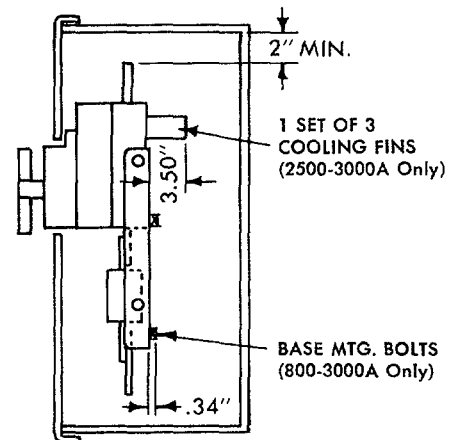
**CAUTION — Remove and discard cardboard guard when fuses are installed.**

## COVER REMOVAL

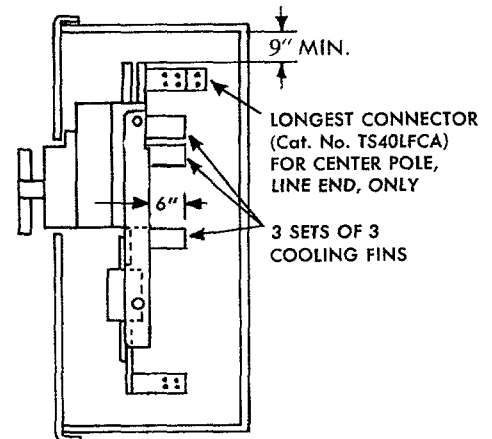
For instructions, refer to label on face of cover.

## COOLING FINS

(For complete instructions, see GEH-4309 Rev. A)



2500-3000 Amperes

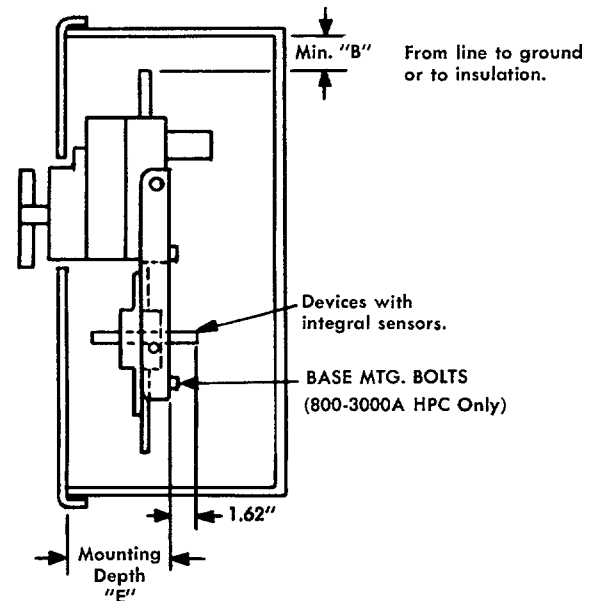
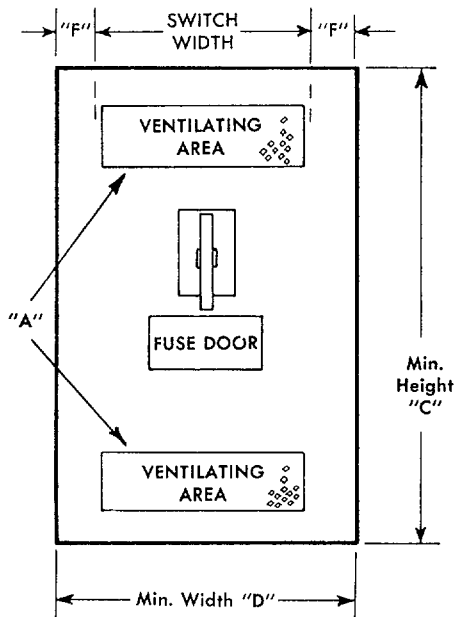


4000 Amperes

# ENCLOSURES

## Volume and Ventilation

Data	HPC Switch Ampere Rating					
	800A	1200-1600A	2000A	2500A	3000A	4000A
Min. Volume (Cubic Inches)	8,400	11,100	28,000	28,000	30,000	54,650
"A" Min. Ventilation Top and Bottom (Square Inches)	23	63	63	172	172	189
"B" Min. Line to Grd. (Inches)	2	2	2	2	2	9
"C" Min. Height (Inches)	28	30	40	40	40	52
"D" Min. Width (Inches)	25	25	25	25	25	30
"E" Mounting Depth (Inches)	8.66	8.66	9.38	9.38	9.38	11.12
"F" Min. to Grd. or Insulation (Inches)	3.5	3.5	3	3	3	3



**NOTE: For switches with Integral Ground Fault Options, see GEH-4394.**

**GENERAL  ELECTRIC**