

**SIEMENS-ALLIS**

**Switchgear**

# **INSTRUCTIONS**

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**TYPES CLF-3000 & CLF-4000  
LOW VOLTAGE AC FUSE DRAW-OUTS  
USED WITH TYPES LAF-3000A & LAF-4000A  
LOW-VOLTAGE AC POWER CIRCUIT BREAKERS  
AND  
RENEWAL PARTS ORDERING GUIDE  
FOR THE LOW VOLTAGE AC FUSE DRAW-OUTS**

Supplement to 18x5689 and 18x5690

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## SCOPE

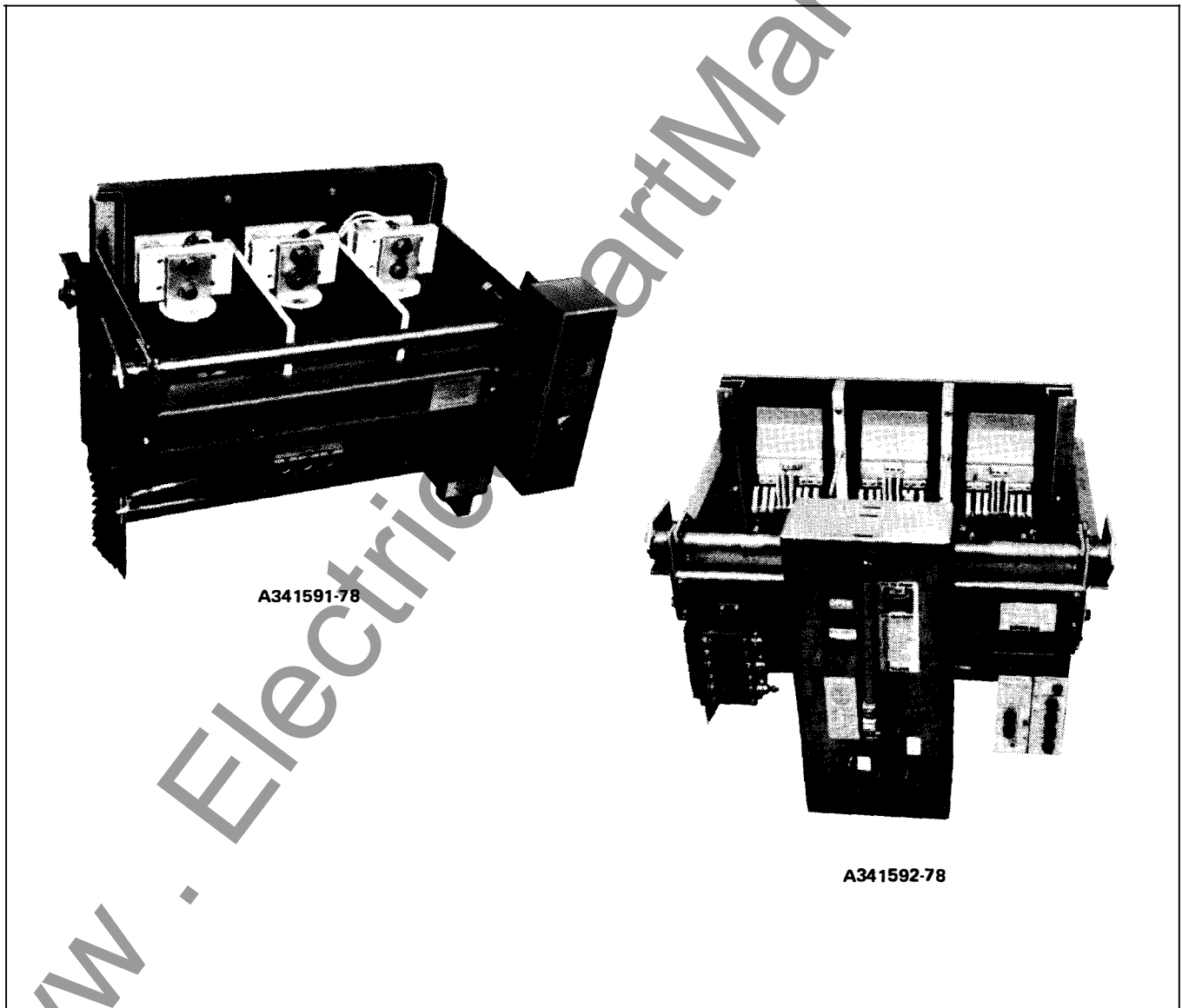
This bulletin describes the receiving, installation, operation and maintenance of the Siemens-Allis Types CLF-3000 and CLF-4000 fuse draw-outs used with Types LAF-3000A and LAF-4000A Low Voltage AC Power Circuit Breakers. Included is a Renewal Parts Ordering Guide for the Fuse Draw-outs.

Except for fuse draw-out/circuit breaker interlocking and open fuse trip attachments, the Types LAF-3000A and LAF-4000A are identical to Types LA-3000A and LA-4000A circuit breaker elements. Fuse draw-out/circuit breaker interlocking and open fuse trip attachments only are discussed

in this bulletin. The circuit breakers themselves are described in the following bulletins:

Instructions, Types LA-3000A and LA-4000A (Unfused) Low Voltage AC Power Circuit Breakers with Manual or Electrical Operators. 18X5689

Renewal Parts Ordering Guide, Types LA-3000A and LA-4000A Low Voltage AC Power Circuit Breakers with Manual or Electrical Operators. 18X5690



Type "LA" Breaker (right) and Fuse Draw-out

# INSTALLATION AND INSPECTION

## Introduction

Type CLF-3000 and CLF-4000 fuse draw-outs for use with type LAF-3000A and LAF-4000A circuit breakers may be furnished for mounting in one of two ways. They may be used in metal-enclosed switchgear of the draw-out type, or in individual enclosures (draw-out type). All fuse draw-outs are completely assembled, tested, and calibrated at the factory in a vertical position, and must be so installed to operate properly.

## Receiving And Inspection For Damage

Immediately upon receipt of this equipment, carefully remove all packing traces. Examine parts; check them against the packing list and note any damages incurred in transit. If damaged, carrier inspection must be arranged for by consignee within 15 days of receipt of equipment. If equipment is shipped F.O.B. Shipping Point, consignee must file a claim with the carrier. If equipment is shipped F.O.B. Destination, the consignee must obtain the original of the carrier inspection report and notify Siemens-Allis immediately.

Two shipping methods are used with "LA" breakers:

1. Individually skidded with protective covering for domestic shipments.
2. Within a cubicle on export orders, when part of a switchgear lineup. Circuit breakers shipped in their cubicles are blocked to prevent accidental tripping during shipment. Note all caution tags, remove blocking bolts, and open circuit breaker contacts before installation.

## Storage

When circuit breakers and fuse draw-outs are not to be put into immediate use, they should be wrapped or covered with a non-absorbent material. This provides protection from plaster, concrete dust, or other foreign matter. Equipment should not be exposed to the action of corrosive gases or moisture. In areas of high humidity or temperature fluctuations, space heaters or the equivalent should be provided.

## Installation

Before installation, note all caution tags, remove blocking bolts, and open circuit breaker contacts. Fuse carriages are completely adjusted, tested, and inspected before shipment, but a careful check should be made to be certain that shipment or storage has not resulted in damage

or change in adjustment. Circuit breakers and fuse draw-outs should be installed in a clean, dry, well-ventilated area in which the atmosphere is free from destructive acid and alkali fumes. Before installing, make certain that the circuit breaker contacts are in the open position.

## Installing The Circuit Breaker-Fuse Draw-out Combination

1. Take the key for the FUSE DRAW-OUT from its associated CIRCUIT BREAKER compartment.
2. Using the proper lifting equipment and rail extensions, insert the FUSE DRAW-OUT into its proper compartment. Observe labeling. Unlock the racking mechanism using the key from the circuit breaker compartment. Check that the racking clevis engages the pins in the compartment. Remove the rail extensions. Use the racking crank to rotate the racking screw in a counterclockwise direction until the fuse draw-out reaches its TEST position.
3. Close the fuse compartment door.
4. Using lifting equipment and rail extensions, insert the circuit breaker into its compartment. Manually push the circuit breaker along the rails until it is stopped by the locking bar. Remove the rail extensions. Then unlock the locking bar with the key, and push the circuit breaker until the racking clevis engages the cubicle pins.
5. After the circuit breaker is racked to the "TEST" position, close it manually by the maintenance closing method. (See MAINTENANCE AND ADJUSTMENTS, 18X5690) to check proper functioning of the mechanism and contacts.

### CAUTION

**Make sure circuits are not energized.**

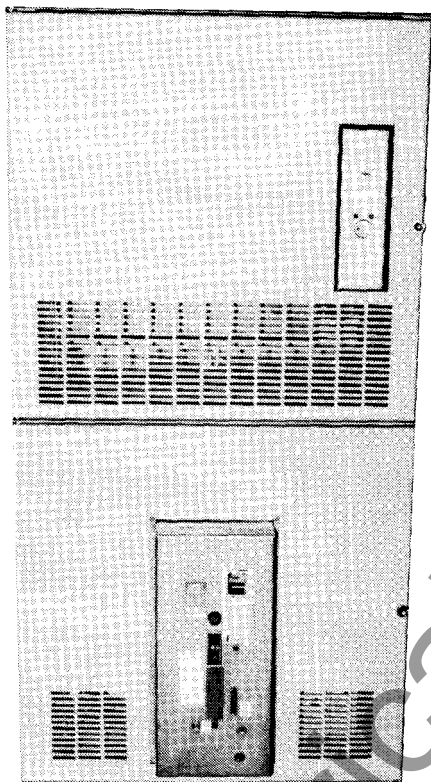
During the closing operation, observe that the contacts move freely without interference or rubbing between movable arcing contacts and parts of the arc chutes. Then refer to OPERATION, pages 3-5, for a detailed description of the circuit breaker operating characteristics before putting the circuit breaker in service.

6. Trip units and accessory devices should receive a thorough check prior to placing the circuit breaker in service to be certain that adjustments are correct and parts are not damaged. Refer to Static Trip II Instruction Book 18X4827-02 or LimiTrip Instruction Book 18X10107.

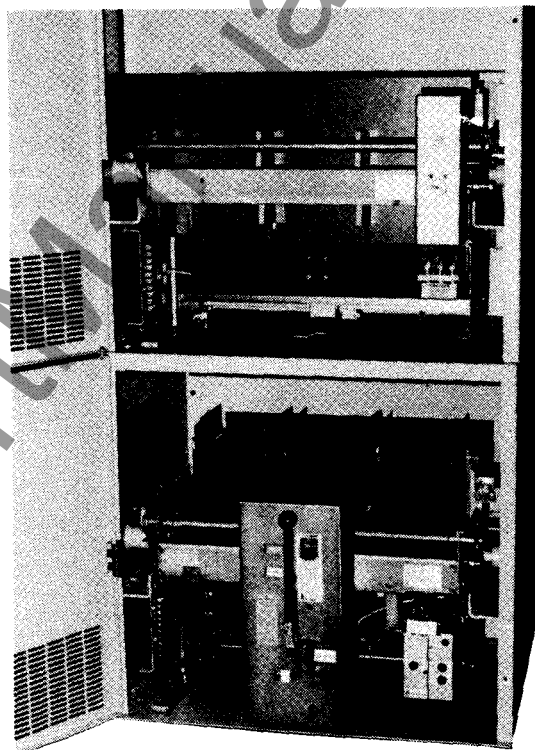
7. Cubicle-mounted circuit breakers of the drawout type are equipped with a drawout interlock to prevent movement of a closed circuit breaker into or out of the connected position. See DRAWOUT INTERLOCK, Bulletin 18X5689 for a description of the interlock. Its operation should be checked before the circuit breaker is energized. The fuse draw-outs are interlocked with a key and lock system to assure that the circuit breaker is withdrawn to its "fully disconnected" position (see Key Interlock System, Page 5) before the fuse draw-out can be racked in or out.

8. Upon completion of the installation inspection, the circuit breaker is ready to be energized after the control wiring, if any, is checked and the insulation tested. (Also see Open Fuse Tripping Attachment, Page 5).

9. Close the compartment door. Rack the circuit breaker into its connected position. Remove the racking crank, close the slide interlock, and check that the open fuse trip attachment is reset. The circuit breaker can now be operated in its normal manner.



*Circuit Breaker and Fuse Draw-out with Compartment Doors Closed*



*Circuit Breaker and Fuse Draw-out with Cubicle Doors Open*

## REMOVING THE CIRCUIT BREAKER FUSE DRAW-OUT COMBINATION

1. Open the circuit breaker. Press the manual trip bar in, and open the slide interlock to expose the racking screw. Use the racking crank to rotate the screw clockwise to move the circuit breaker to its disconnected position. Remove the racking crank and open the compartment door. Manually pull the circuit breaker to its "fully disconnected" position to clear the locking bar. Rotate and remove the key from the lock.

2. Use the key to unlock the slide interlock on the fuse draw-out to expose its racking screw. Use the crank to

rotate the racking screw in a clockwise direction to move the fuse draw-out to its disconnected position.

### Maintenance

Occasional checking and cleaning of the circuit breaker and fuse draw-out will promote long and trouble-free service. A periodic inspection and servicing at least every six months should be included in the maintenance routine.

If the circuit breaker is not operated during extended periods, the circuit breaker should not remain in either the closed or open position any longer than six months. Opening and closing operations should be made to ensure freedom of movement of all parts.

#### CAUTIONS TO BE OBSERVED IN THE INSTALLATION AND OPERATION OF "LA" CIRCUIT BREAKERS WITH FUSE DRAW-OUTS:

1. Read Instruction Book before installing or making any changes or adjustments.
2. As the closing springs on stored-energy breakers may be charged in either the circuit breaker open or closed position, extreme care should be taken to discharge all springs before working on the circuit breaker.
3. When closing manually operated circuit breakers, always grasp charging handle until it is returned to the normal vertical position.
4. Check current ratings, wiring diagram number, circuit breaker type and static trip type against the three

line diagram to assure that circuit breakers and fuses are located in the proper compartments within the switchgear.

#### NOTE

The separately mounted fuse draw-outs are made with a KEY interlock that requires that they be used in specific compartments. Refer to nameplate on fuse draw-out for compartment number.

5. Check the alignment of the secondary disconnect fingers to ensure against misalignment due to possible distortion of fingers during shipment and handling.
6. Close the compartment door and secure with knurled knob prior to racking to or from the "connected" position. Also close compartment door prior to closing this circuit breaker when in this connected position. Once the circuit breaker is closed, keep this door closed.
7. Once the circuit breaker and fuse draw-out are energized, they should not be touched, except for the exterior controls.

## DESCRIPTION

The basic LA-3000A unfused circuit breaker has a maximum continuous current rating of 3000 amperes, and an interruption rating of 65,000 amperes symmetrical at 254, 508 and 635 volts, when used without instantaneous trip. It has an interruption rating of 85,000 amperes symmetrical at 254 volts, and 65,000 amperes at 508 and 635 volts, when used with instantaneous trip.

The basic LA-4000A unfused circuit breaker has a continuous current rating of 4000 amperes, and an interruption rating of 85,000 amperes symmetrical at 254, 508 and 635 volts when used without instantaneous trip. The interruption rating is 130,000 amperes at 254 volts, and 85,000 amperes symmetrical at 508 and 635 volts, when used with instantaneous trip.

When used in conjunction with the separately mounted fuse draw-out, the circuit breaker designation becomes LAF-3000A or LAF-4000A. The LAF-3000A and LAF-4000A has an attachment that operates to open the circuit breaker when one or more of the current limiting fuses opens. The interruption rating of the combination of fuses and circuit breaker is increased to the interrupting rating of the fuses — 200,000 amperes symmetrical at 600 volts or less. The continuous current rating may be restricted by the fuse size used. When equipped with 6000 ampere fuses, the LAF-

4000A combination is rated at 4000 amperes continuous. The LAF-3000A combination is rated at 3000 amperes continuous when equipped with 5000 ampere fuses. Both circuit breaker continuous ratings are reduced when smaller rated fuses are used. (Refer to the catalog for application information.)

The fuse draw-outs are provided with open-fuse sensors connected to the open-fuse trip attachment which is mounted on the circuit breaker. This trip opens the circuit breaker when one or more of the current-limiting fuses open.

#### NOTE

The tripping depends on voltage being developed across the open fuse by the power source. **NO TRIPPING WILL OCCUR IF THE POWER CIRCUIT IS DE-ENERGIZED.**

#### Fuses

Only Chase-Shawmut fuses modified per Siemens-Allis drawing number 71-142-200 can be used with the circuit breaker-fuse draw-out combination. Fuses of different manufacture will not mount on the fuse draw-out terminals.

Only fuses of the same current rating should be used for replacement of any open fuses.

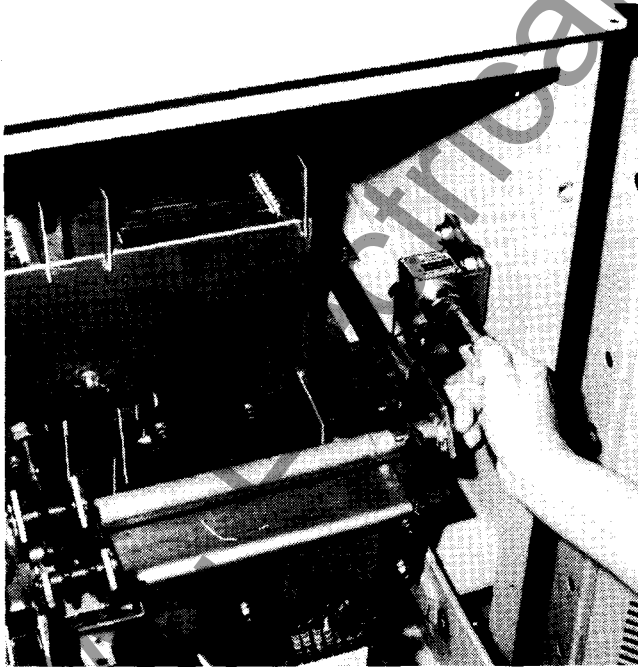
### Trigger Fuses And Open Fuse Trip Attachment

The fuse draw-out has provisions for mounting three trigger fuses that are connected in parallel with the main power fuses. They are used to indicate which of the power fuses opened under a system fault. Operation of the open-fuse trip attachment is indicated by increased projection of the reset rod through the front cover of the circuit breaker. The breaker-mounted open-fuse trip attachment holds the circuit breaker in its tripped position, and the circuit breaker cannot be reclosed until the open-fuse trip attachment is reset manually. The trigger fuses should also be replaced when replacing the main power fuses if open-phase indication is desired. The system will function normally if the trigger fuses are not replaced. However, phase indication will not be provided.

#### CAUTION

The trigger fuses connect directly to the main power fuses and will normally be energized at line voltage whenever the fuse draw-out is in its connected position. **DO NOT REMOVE THE PROTECTIVE COVER OVER THE TRIGGER FUSES WHEN THE FUSE DRAW-OUT IS IN THE CONNECTED POSITION.**

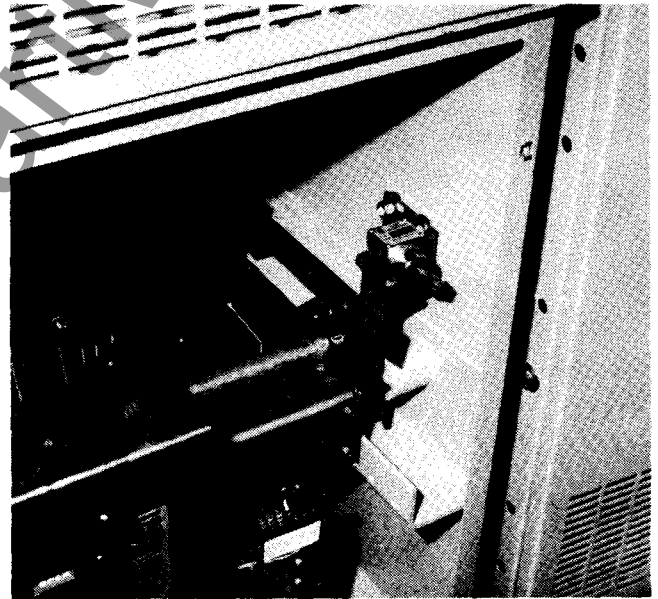
Use only Chase-Shawmut Type TI-600 trigger fuses in the indicator.



*Key Interlock on Breaker with Circuit Breaker in the "Fully Disconnected" Position, and showing the Locking Bar behind the Racking Shaft and Key being withdrawn*

### Key Interlock System

Each fuse draw-out is equipped with an integral key-operated interlock for a particular cubicle location. Interlocks prevent racking the fuse draw-out in or out of the connected position if its associated circuit breaker is not in its "fully disconnected" position. The circuit breaker must be racked out as far as possible, the door of the cubicle opened, and the circuit breaker pulled out an additional small amount to allow the locking bar to clear the racking shaft. Once clear, the key can be rotated, lowering the locking bar to prevent inserting the circuit breaker into the cubicle. The key can then be removed from the circuit breaker lock and transferred to the lock on the fuse draw-out. The fuse draw-out lock operates the slide interlock cover over the racking screw of the fuse draw-out. Once exposed, the fuse draw-out can be racked in or out using the racking handle. The key is retained in the lock when the fuse draw-out is between the TEST and CONNECTED positions. This prevents inserting or withdrawing the fuse draw-out unless the circuit breaker is in the "fully disconnected" position.



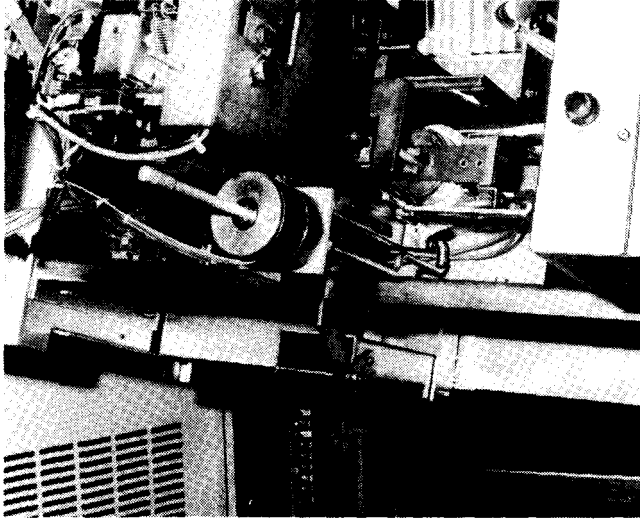
*Key Interlock on Breaker Compartment with Circuit Breaker in Connected Position*

### Testing Open Fuse Trip Attachment

#### CAUTION

The trigger fuses connect directly to the main power fuses and will normally be energized at line voltage whenever the fuse draw-out is in its connected position. **DO NOT REMOVE THE PROTECTIVE COVER OVER THE TRIGGER FUSES WHEN THE FUSE DRAW-OUT IS IN THE CONNECTED POSITION.**





*Circuit Breaker-mounted Open-fuse Trip Attachment with Cover removed from Circuit Breaker*

The open fuse trip attachment is operated by the voltage developed across the open fuse. This voltage is applied to a transformer and rectifier combination. The output of the rectifier is connected to the coil of the trip attachment on the circuit breaker through the secondary disconnects of the two devices. For testing, voltage is applied to the input of the transformers. To do this, the fuses must be open, or the transformer disconnected from the fuse. Otherwise, the fuse will short out the test source. For safety, the following procedure is recommended:

1. Open the circuit breaker and rack it to its disconnected position. Open the circuit breaker compartment door, pull the circuit breaker clear of the locking bar. Then remove the key from the interlock.

2. Use the key to unlock the fuse draw-out racking mechanism. Rack the fuse draw-out to its TEST position. At this point, the main disconnects are clear of the power circuit, while the secondary disconnects are still engaged. The key can now be rotated and removed from the fuse draw-out racking mechanism lock.

3. Unlock the circuit breaker locking bar, re-insert the circuit breaker. Rack it into its TEST position.

4. Remove the safety barriers of the fuse draw-out to allow access to the main power fuses. Disconnect the two small (No. 14 AWG) wires from the top terminals of the power fuses. Connect the two small wires of each phase together. Keep them insulated from the top of the fuse. Remove the trigger fuse cover and remove the trigger fuses.

5. Close the circuit breaker. Apply voltage to the terminals in the trigger fuse block, preferably from a variable transformer with a voltmeter, although 120 VAC can be used. The voltage is applied between the terminals where the trigger fuses were mounted, one phase at a time. The circuit breaker must trip at 120 VAC or less. Remove the voltage, reset the open fuse trip device on the circuit breaker and reclose the circuit breaker for the next test. Repeat the test for each of the three phases.

6. Replace the trigger fuses. Reconnect the two wires to the top of each fuse terminal, and replace the safety barriers and covers, before racking the units back to the connected position. The circuit breaker must first be racked out to the "fully disconnected" position to obtain the key so the fuse draw-out can be moved.

## HOW TO USE THE RENEWAL PARTS ORDERING SECTION

1. Locate the part or parts to be replaced in one of the drawings in this manual.
2. Identify each part by item number, description and part number. Give drawing figure number in which part is shown.
3. Include breaker type, rating and breaker serial number with your order.
4. Place order with your Siemens-Allis representative.
5. When ordering relays or other electrical parts, include control voltage (see recommended spare parts list for part numbers.)

### ORDERING EXAMPLE

Type LA-3000A      Rated Amps. 3000      Serial Number H-86679A-4

Mode of Operation:      Electrical      Manual

Renewal Parts Ordering Guide 18X5690

Fig.	Item	Description	Part Number	Quantity
1	6	Barrier	71-142-324-001	1
3	24	Spring	71-141-666-001	1
2	28	Base	71-340-240-001	1

If required part is not identified in this manual –

1. Make a copy of the drawing figure in which the part would appear.
2. Indicate with arrows or other markings location of part.
3. Describe or sketch required part.
4. Include breaker type, rating and breaker serial number with your order.
5. Place order with your Siemens-Allis representative.

## ITEM DESCRIPTION FOR FIGURES 1 & 2

ITEM	DESCRIPTION	3000A		4000A	
1	Primary Contact	18-657-511	578	657-511	579
7	Screw	00-615-663	373		
12	Key Interlock	00-675-535	311		
14	Interlock Assy.	18-657-846	514		
15	.25-20 x .5 Hex. Soc. Hd. Screw	15-171-738	003		
16	Rivet (.188 x .50)	18-657-824	128		
21	Panel-Fuse 3K	18-395-712	001	18-395-035	001
22	Contact Assy.	18-395-711	502	18-395-711	501
26	Lk. Washer .312	00-655-017	030		
27	Washer .312	00-651-027	170		
28	Angle	18-657-822	183	18-657-854	123
29	Angle Glastic	18-657-870	198		
32	Cap Screw	00-611-315	426		
44	Cover	18-395-713	001		
45	Spec Screw	18-657-855	247		
46	Screw No. 10 (-5)	15-171-399	010		
47	Nut (.375-16)	00-631-059	106		
48	Lk. Washer .375	00-655-017	032		
49	Label (Racking Position)	18-657-823	348		
53	Shelf	18-727-741	001		
54	Screw .25-20 (.62)	00-615-663	373		
55	Ground Bar	18-657-781	278		
56	Box Interlock	18-657-855	245		
57	Rack Shaft Support	18-657-855	242		
58	Roll Pin .188 x .5	00-671-171	309		
59	Guide Nut	18-657-838	282		
60	Wheel	18-657-822	355		
61	Bearing 0.50 ID x 1.00	15-171-399	033		
62	Washer 0.5	00-651-007	285		
63	Cap Scr. Hex. Hd. .5-13 x 2.0	00-611-315	552		
64	Bearing 0.50 ID x 1.25	15-171-399	034		
69	Rack Shaft Assy.	18-729-877	502	18-729-877	501
71	Retainer	18-657-822	197		
72	Racking Block	18-657-823	359		
73	Racking Scr. Assy.	18-727-842	502		
74	Collar	72-140-028	002		
75	Roll Pin	00-671-185	901		
76	Link	18-657-823	340		
77	Rack. Shaft Support	18-729-878	001		
78	Screw Brace	18-657-855	244		
79	Barrel Nut	18-657-823	346		
80	L Link	18-657-823	341		
81	Spacer (.5)	18-724-503	004		
82	Spacer (.310)	18-724-503	005		
83	Spacer (.19)	18-724-503	003		
84	Spacer (.46)	18-724-503	001		
85	Pin .375 x (1.94)	18-724-501	012		
86	Pin .375 x (2.75)	18-724-501	013		
87	X Washer	00-659-055	250		
88	Nut .5-13	00-631-171	108		
89	Lk. Washer .5	00-655-017	036		
90	Brace	18-657-855	248		
91	Roll Pin .188 x 1.25	00-671-176	319		
92	Barrier	18-729-879	002	18-729-879	001
93	Label (Racking)	18-657-870	195		
94	Cover Strip (cut to suit)	18-657-463	031		
95	Open Fuse Sensor	18-395-829	501		
96	Open Fuse Indicator	18-395-039	501		
97	Barrier	18-657-901	014		
98	Screw, Self Tap, No. 10-16	00-615-199	218		
101	Fuse 2000A	71-142-000	007		
102	Fuse 2500A	71-142-000	008		
103	Fuse 3000A	71-142-000	009		
104	Fuse 4000A	71-142-000	010		
105	Fuse 5000A	71-142-000	011		
106	Fuse 6000A	71-142-000	012		
107	Screw 2000A only	00-611-315	548		
108	Screw, All Others	00-611-315	550		
109	Rd. Washer	00-651-007	300		

### ITEM DESCRIPTION FOR FIGURE 3

ITEM	DESCRIPTION	3000A	
1	Support	18-730-064	001
2	Circuit Breaker Assembly	18-730-037	501
3	Transformer	18-657-855	365
4	Resistor (200 OHM 25 W)	00-875-401	201
5	Insulator	00-871-311	109
6	Washer (Centering)	14-105-442	001
7	Screw No. 6-32 x 2.566	00-615-471	142
8	Nut No. 6-32	00-631-109	106
9	Lk. Washer No. 6	00-655-067	060
10	Screw No. 10-32 x .5	00-615-485	218
11	Nut No. 10-32	00-631-109	210
12	Lk. Washer No. 10	00-655-067	100
13	Lk. Washer .25	00-655-067	140
14	Stud .25-20 x 4.25 Lg.	14-135-915	003
15	Nut .25-20	00-631-059	104
16	Screw .25-20 x 0.5	00-611-315	371
17	Insulation	00-413-615	182
18	Terminal Red Faston	00-851-470	901
19	Terminal Blue No. 10 Ring	00-851-062	019
20	Terminal Blue No. 6 Ring	00-851-062	017
21	No. 14 SIS Wire	00-557-286	341
22	Nameplate		
23	Tyrap	00-857-271	230
24	Tyrap Mtg. Plate	00-857-271	750
25	Mach. Scr., Slotted Hex. Hd., No. 10-32 x .38 Sems	00-611-445	216

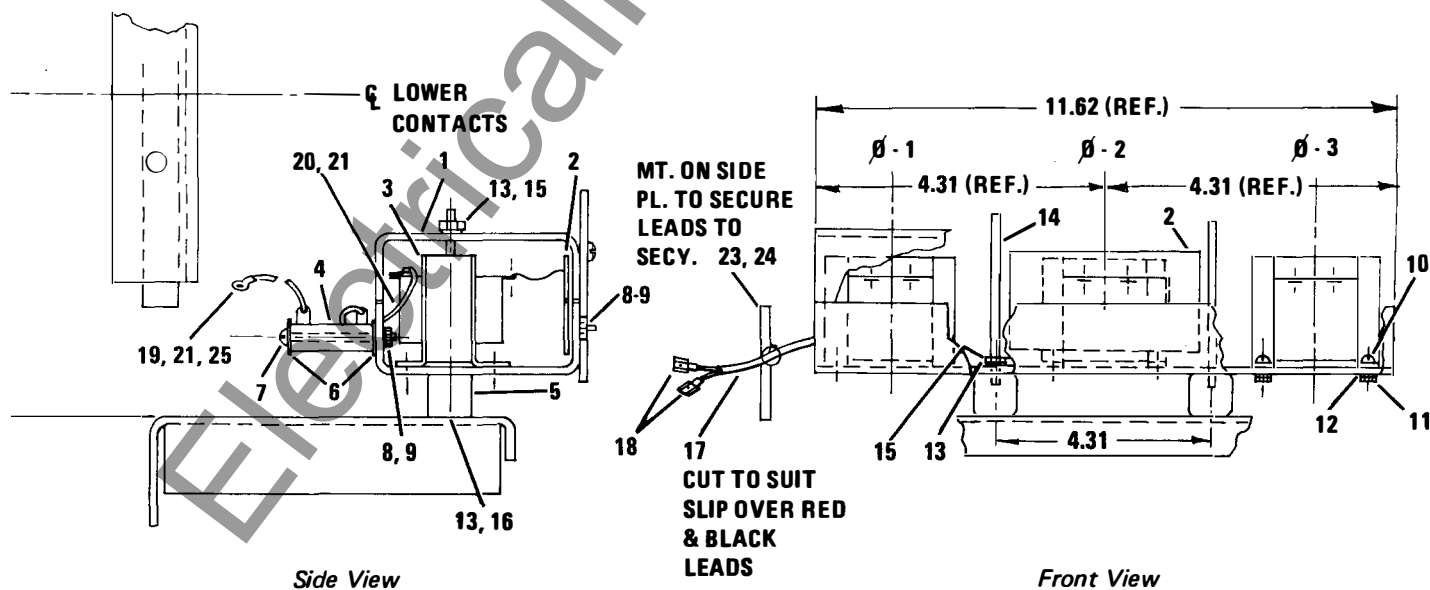
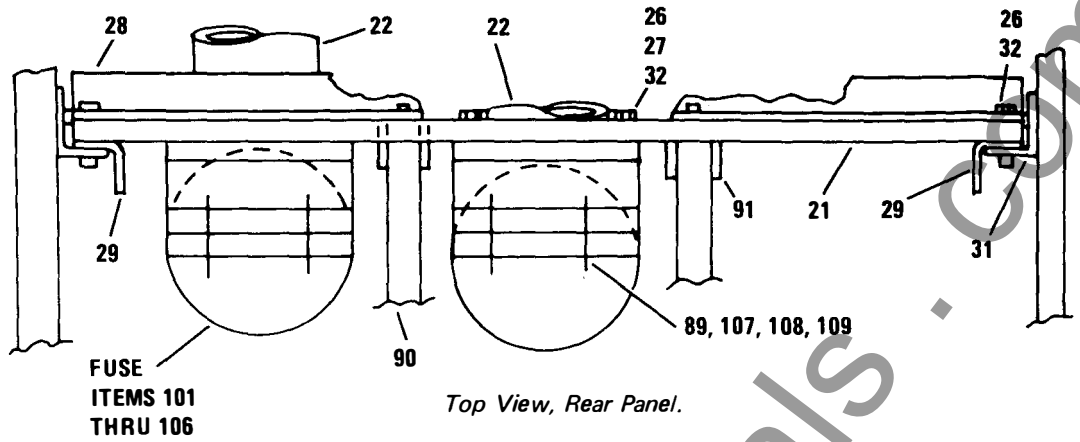


Figure 3. Open Fuse Sensor



FOR WIRING DIAGRAM OF FUSE DRAW-OUT SEE 18-731-230-401

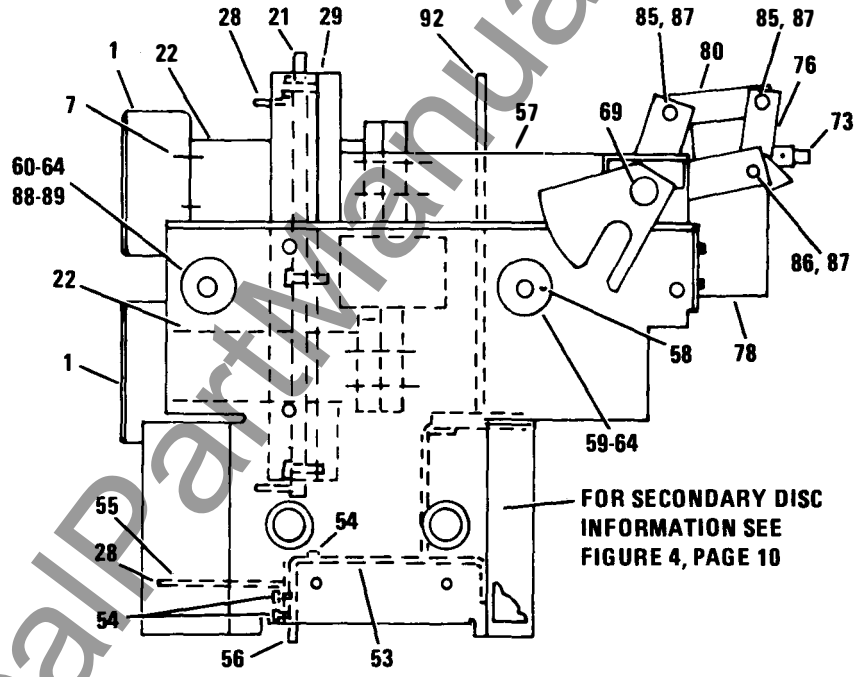
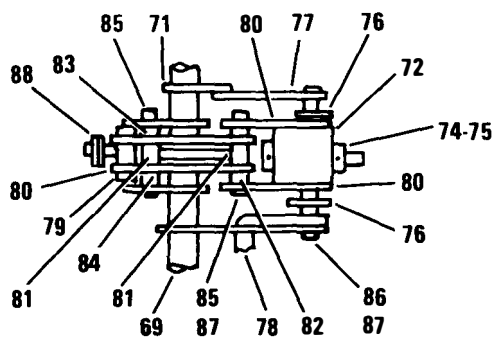


Figure 1

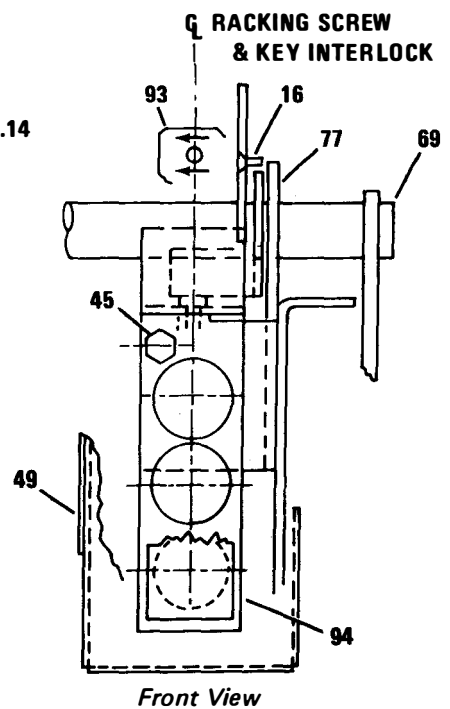
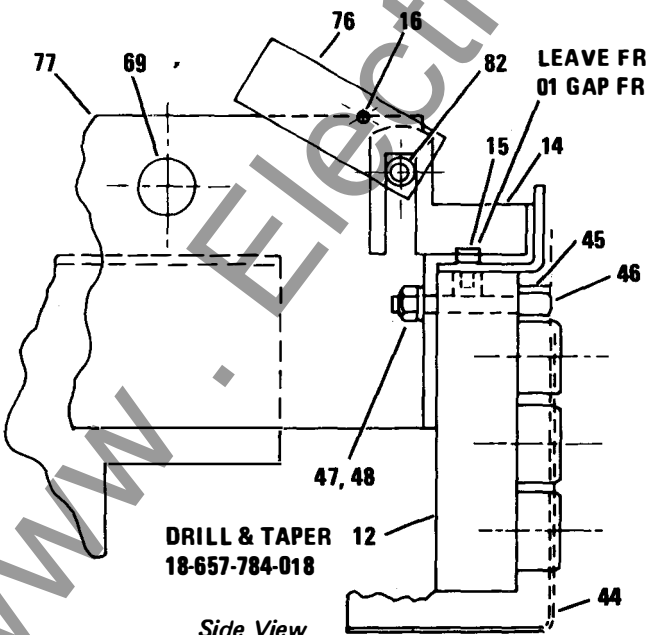


Figure 2. Key Interlock Mounting

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717-854-2175

### ITEM DESCRIPTION FOR FIGURE 4

ITEM	DESCRIPTION	3000A	
1	Fuse Housing	71-240-600	001
2	Plate	18-657-854	182
3	Sems Screw	00-611-435	371
4	Fuse Clip	00-871-262	103
5	Sems Screw	00-615-641	304
6	Terminal	00-851-011	046
7	Wire No. 14 (SIS)	00-557-286	341
8	Actuator Fuse	72-140-317	001
9	Cover	71-240-599	001
10	Clip	71-142-192	001
11	Label	15-171-185	001
12	Screws .25-20 (.62)	00-615-663	373
13	Mach. Scr., Slotted Hex Hd. Sems No. 10-32 x .38	00-611-445	216
14	Terminal No. 10 Ring	00-851-962	019

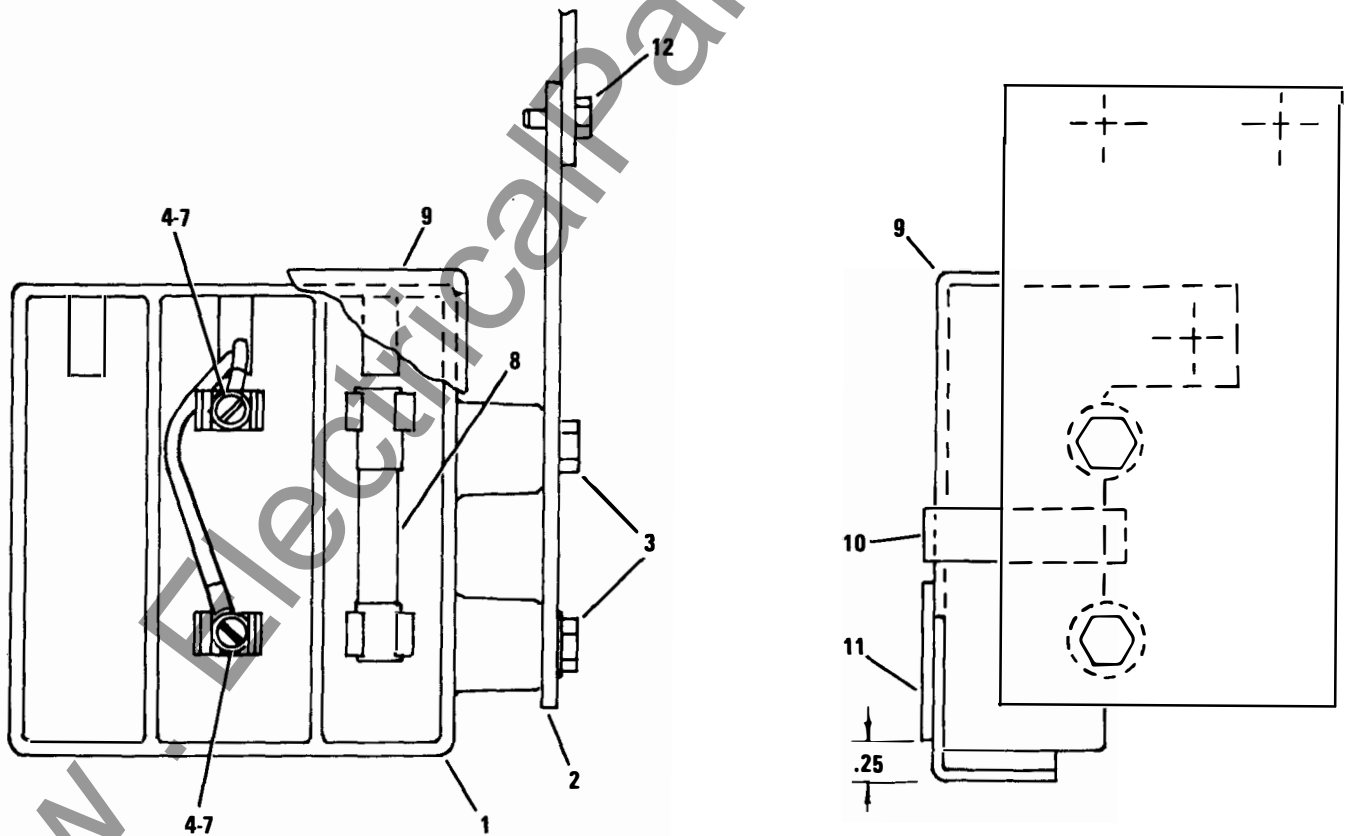


Figure 4. Open Fuse Indicator

## ITEM DESCRIPTION FOR FIGURE 5

ITEM	DESCRIPTION	3000A	
1	Actuator Assy.	18-387-921	505
2	Support Bracket	18-657-855	361
3	Rod	18-657-855	363
4	Guide	18-657-803	018
5	Cap Closure	00-953-383	008
6	Rod End Clip	15-171-399	004
7	Slide Interlock	18-657-781	269
8	No. 10-32 x .5 Lg. Screw	15-171-399	010
9	Insulation (Over Actuator Leads)	00-413-615	182
10	Terminal	00-851-470	901
11	.25-28 Jam Nut	00-631-143	204
12	No. 10-32 x .625 Lg. Rd. Hd. Mach. Screw	00-615-513	220
13	No. 10 Ext. Tooth Lockwasher	00-655-067	100
14	Nut (.25-28)	18-657-855	364
15	.25-20 x .625 Lg. Self Tap. Screw	00-615-663	373
16	Label (Open Fuse Reset)	18-657-765	224

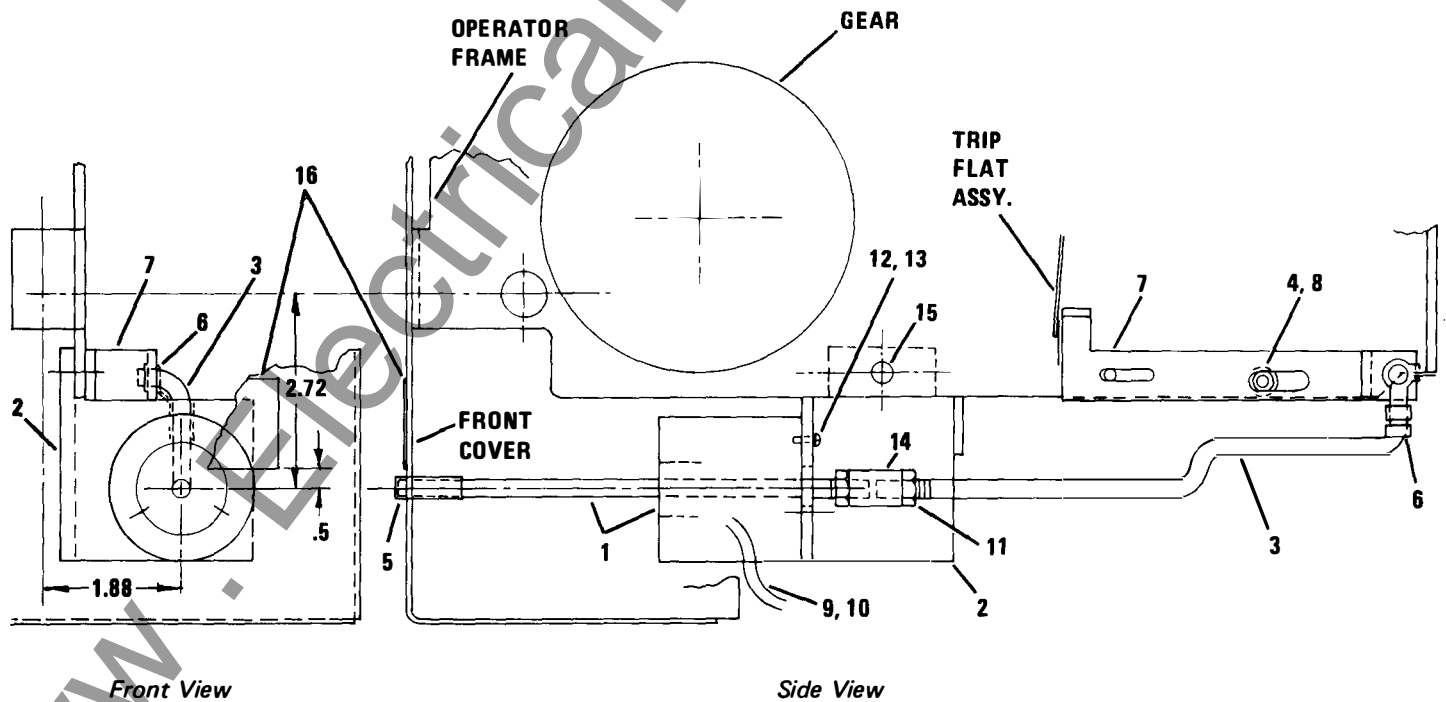


Figure 5. Open Fuse Indicator (Mounted on Breaker)



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## INSTRUCTION BOOK REFERENCES

Low Voltage Metal – Enclosed Switchgear Type ME and OMG .....	18X1315-05
LimiTrip Static Trip Device Instructions .....	18X10107
LA-3000A and LA-4000A (unfused) Circuit Breaker .....	18X5689
Renewal Parts Operating Guide for LA-3000A and LA-4000A .....	18X5690
Types CLF-3000 and CLF-4000 Low-Voltage AC Fuse Draw-outs used with Types LAF-3000A and LAF-4000A Low-Voltage AC Power Circuit Breakers .....	18X10238
Static Trip II Instructions .....	18X4827
Description of Operation – Static Trip II .....	18X4814
Types LA-600A, LA-800A and LA-1600A (unfused) (M.O. or E.O.) Circuit Breaker and Types LAF-600A, LAF-800A and LAF-1600A (fused) (M.O. or E.O.) Circuit Breaker .....	18X5214-02
Renewal Parts for LA-600A, LA-800A and LA-1600A, LAF-600A, LAF-800A and LAF-1600A .....	18X5215-02
Portable Test Set Type PTS-2 For Static Trip II .....	18X4955-01
Portable Test Set Type PTS-3 For Static Trip I, II and LimiTrip .....	18X10336

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