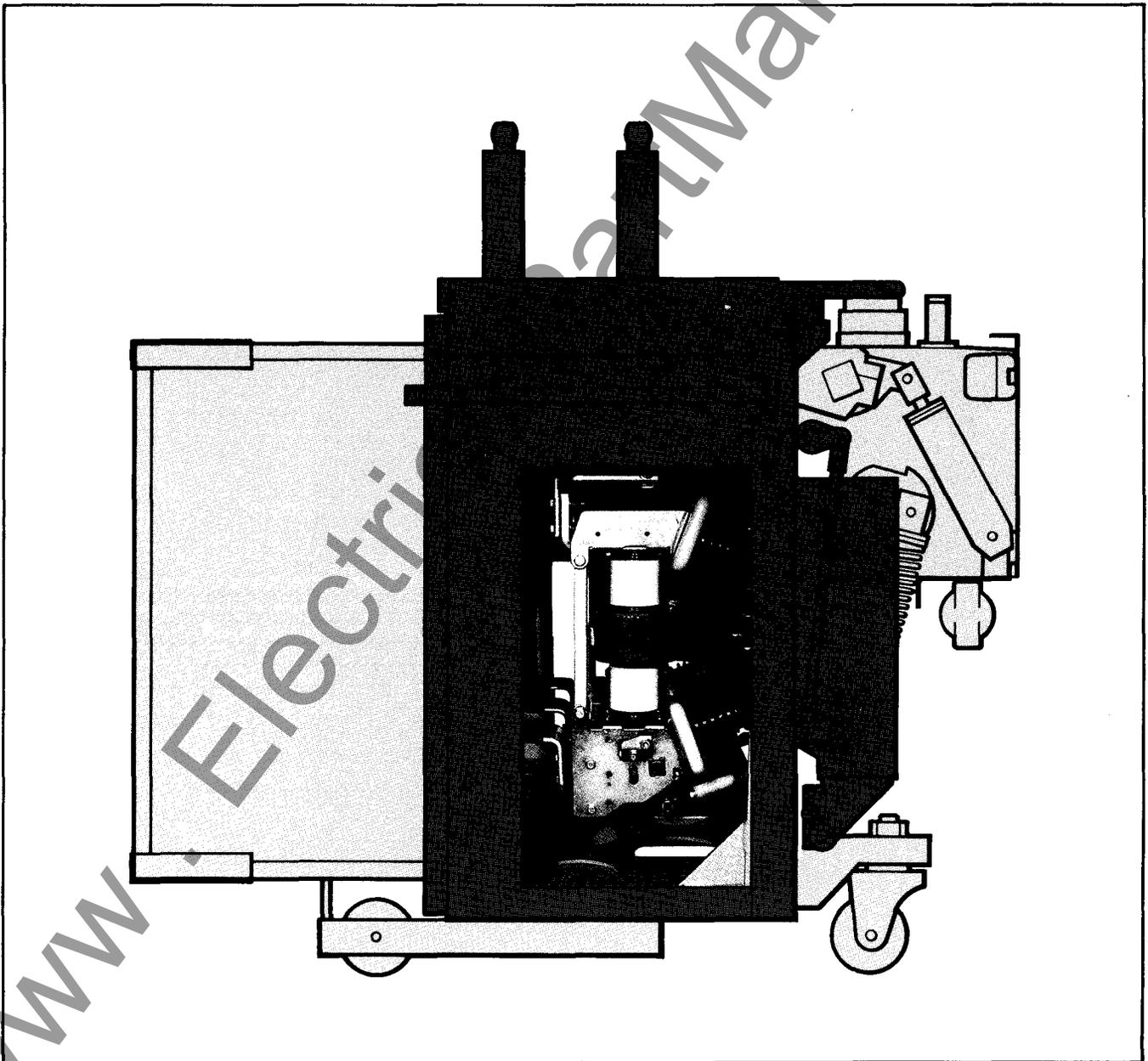


SIEMENS

Inside every outdated air-magnetic circuit breaker is the potential for state-of-the-art vacuum technology.



SIEMENS

We've Taken the High

At last, an economical solution to the replacement—upgrading—of your old air magnetic circuit breakers. Siemens now offers a complete replacement vacuum circuit breaker, utilizing your old air-magnetic frame assembly, designed to install as a unit into your existing switchgear cubicle. Convert to reliable, longer-life vacuum circuit breaker operation at only a fraction of total switchgear replacement cost—and, at the same time, move to the Siemens quality line.

Since its introduction in 1976, nearly 50,000 3AF vacuum circuit breakers in service have proven the reliability and efficiency of the Siemens vacuum circuit breaker design. This same quality product is now available for the upgrading of existing air-magnetic circuit breaker installations.

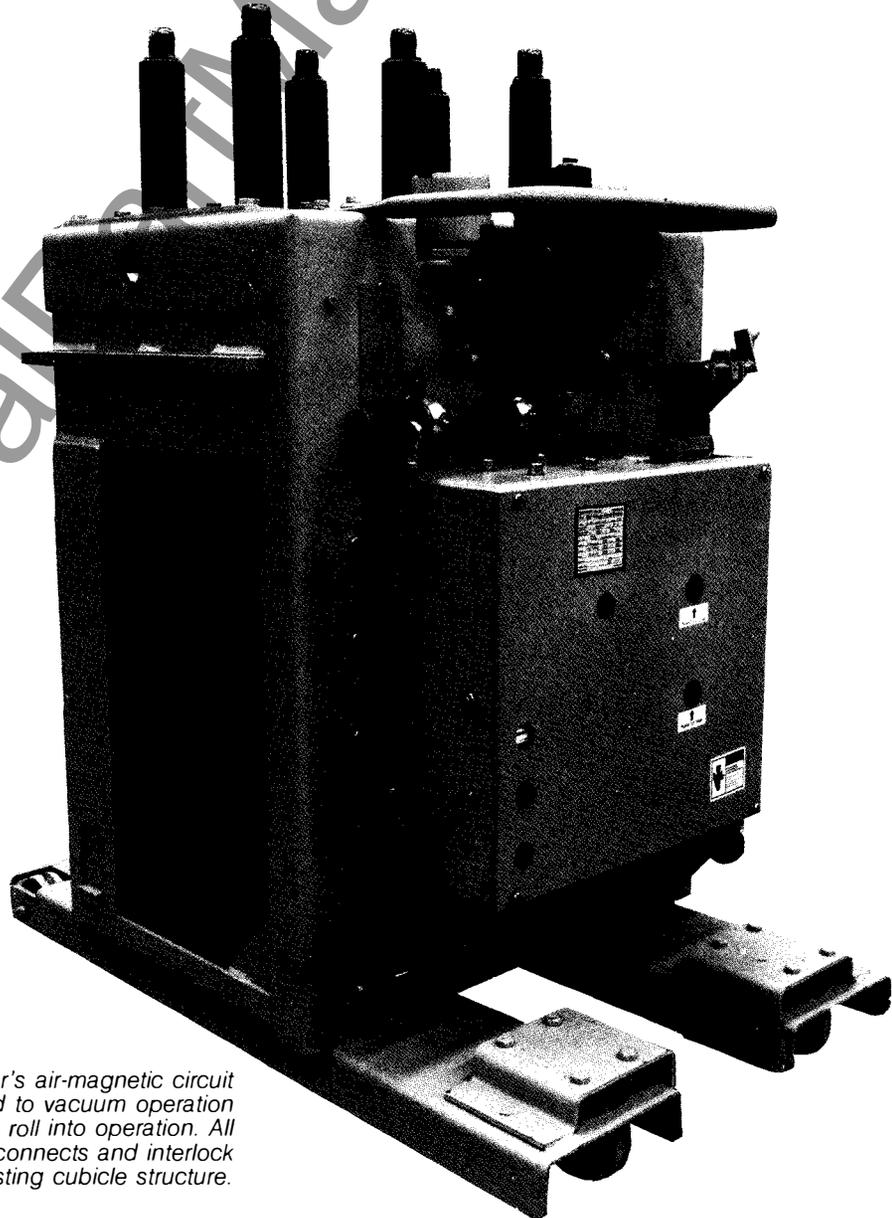
Vacuum Switching . . .

Unlike air-magnetic switching, the 3AF operator makes-and-breaks contact in a contained vacuum arc chamber. The result is quicker, "cleaner," safer switching and superior contact life. Siemens vacuum interrupters have recorded main-

tenance-free service of 20 to 30,000 operations at rated continuous current. The 3AF operating mechanism has an equally impressive performance history.

Operator Assembly . . .

Years of medium voltage circuit breaker construction experience has produced a rugged, nearly maintenance-free, operator assembly. Heavy steel frame construction, strong upper and lower interrupter supports,



Another manufacturer's air-magnetic circuit breaker assembly converted to vacuum operation with Siemens 3AF—ready to roll into operation. All original and secondary disconnects and interlock functions fit existing cubicle structure.

CUSTOMER LIST

LONG ISLAND LIGHTING COMPANY (LILCO)

DAYTON POWER AND LIGHT COMPANY

JACKSONVILLE ELECTRIC AUTHORITY

JERSEY CENTRAL POWER AND LIGHT COMPANY

SHERER ELECTRIC COMPANY

BERKSHIRE MEDICAL CENTER

CHAMPION INDUSTRIES

WILAMETTE PAPER COMPANY

BRIGGS AND STRATTON

WHEELING - PITTSBURGH STEEL

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RETROFIT LIST

GE MAGNEBLAST

5KV-250MVA-1200A (AM 4.16) Vertical
5KV-250MVA-2000A (AM 4.16) Vertical
15KV-500MVA-1200A (AM 13.8) Vertical
15KV-750MVA-1200A (AM 13.8) Vertical
15KV-1000MVA-1200A (AM 13.8) Vertical
15KV- 750MVA-2000A (AM 13.8) Vertical
15KV-1000MVA-2000A (AM 13.8) Vertical
15KV- 750MVA-3000A (AM 13.8) Vertical
15KV-1000MVA-3000A (AM 13.8) Vertical

WESTINGHOUSE DH/DHP

5KV- 250MVA-1200A Horizontal
15KV- 500MVA-1200A Horizontal
15KV- 750MVA-1200A Horizontal
15KV-1000MVA-1200A Horizontal

ALLIS-CHALMERS

MC 15KV- 500MVA-1200A Horizontal
MC 15KV-1000MVA-1200A Horizontal

(Oil) 38KV-1000MVA-1200A Horizontal
(Oil) 38KV-1500MVA-1200A Horizontal

AM150 5KV-250MVA-1200A Vertical
AM250 5KV-250MVA-1200A Vertical

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BREAKER RETROFIT CHECKLIST

Customer Order No. _____

REMARKS

Breaker Type _____
Breaker Rating _____
Voltage _____
Current _____
MVA _____

Check One:
Solenoid Operator _____
Stored Energy _____

Control Circuit Schematics Required
Voltages Required:
Motor Circuit _____
Close Circuit _____
Trip Circuit _____

MOC Switch
Yes _____
No _____

Plunger Interlock _____

Required in Useable Condition:
Primary studs & insulators required
Primary disconnects required
Secondary disconnects required

Breaker Width _____
Breaker Height _____
Cubicle Width _____

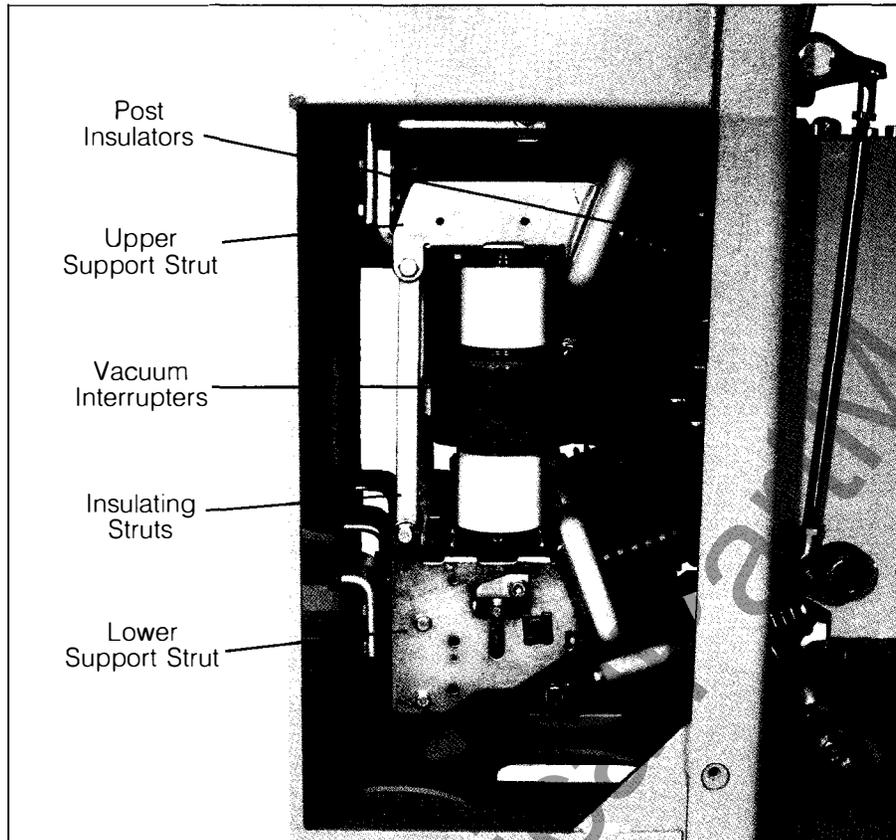
Check One:
Solenoid Cubicle _____
Stored Energy Cubicle _____

Return Removed Parts to Customer
Yes _____
No _____

Customer Address _____

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Cost Out of Vacuum Circuit Breaker Conversions.



stress bearing interrupter insulating struts, large post insulators and precision-built motor operating mechanisms have proven durability in 60,000 operations.

Cost Effectiveness . . .

Upgrading from air-magnetic to Siemens vacuum operation will save you money in many ways for many years. Not only does the Siemens upgraded unit allow you to use your existing switchgear, but the ease of conversion reduces costly downtime. The switch to reliable, effi-

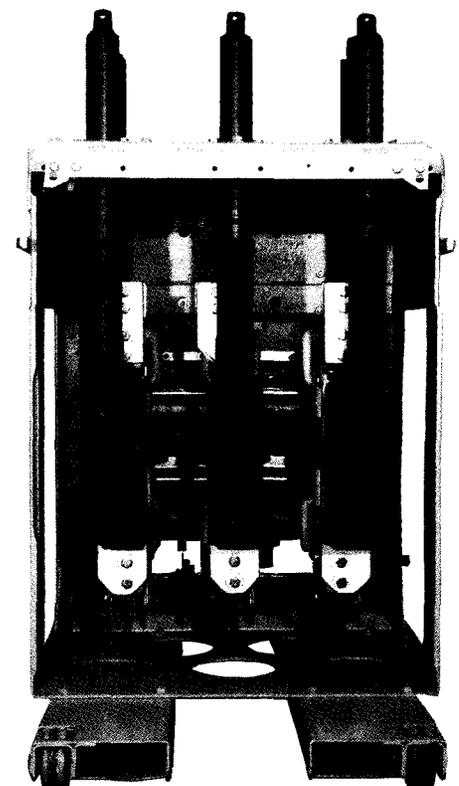
cient vacuum operation is no more difficult than removing one breaker and replacing it with another—so why not replace it with the quality and dependability of a Siemens vacuum circuit breaker?

Spread your conversion costs over a period of time. Siemens can upgrade your spare or broken down air-magnetic circuit breakers to vacuum operation. Replace your old circuit breakers as they wear out with these new units and then let Siemens upgrade those—continue until your entire installation

is converted to the high technology of vacuum operation.

After reviewing the advantages of vacuum circuit breaker operation, it's easy to see why you should upgrade your old air-magnetic circuit breakers to this low maintenance, reliable switchgear. After reviewing the 3AF operator design and service record it's easy to see why Siemens is the quality choice for this job.

Siemens has truly taken the fear—and high cost—out of vacuum circuit breaker conversion.



SIEMENS

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