

Cutler-Hammer  
Beaver, PA

Automatic Transfer Switch

AGswitch  
Wiring Diagrams



**Cutler-Hammer**

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**EATON**

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AGswitch	Wiring Diagram Book		Date: 9/30/98

Plug - Pin assignments for the GENSWITCH Transfer Switch.

P1 - Switching Panel

S1 - Logic Panel

1	Normal	N1	Phase A
2	Normal	N2	Phase B
3	Normal	N3	Phase C
4	Normal	N1	Phase A
5	Normal	N2	Phase B
6	Normal	N3	Phase C
7	N Aux Sw #1	N.O.	
8	N Aux Sw #1	C	Limit Switch
9	N Aux Sw #1	N.C.	
10	N Aux Sw #2	N.O.	
11	N Aux Sw #2	C	
12	N Aux Sw #2	N.C.	
13	N Aux Sw #3	N.O.	
14	N Aux Sw #3	C	
15	N Aux Sw #3	N.C.	

P2 - Switching Panel

S2 - Logic Panel

1	Emergency	E3	Phase C
2	Emergency	E2	Phase B
3	Emergency	E1	Phase A
4	Emergency	E3	Phase C
5	Emergency	E2	Phase B
6	Emergency	E1	Phase A
7	E Aux Sw #1	N.O.	
8	E Aux Sw #1	C	Limit Switch
9	E Aux Sw #1	N.C.	
10	E Aux Sw #2	N.O.	
11	E Aux Sw #2	C	
12	E Aux Sw #2	N.C.	
13	E Aux Sw #3	N.O.	
14	E Aux Sw #3	C	
15	E Aux Sw #3	N.C.	

P3 - Switching Panel to  
S3 - Transformer Panel

- 1
- 2
- 3
- 4 Motor Bridge "AC" In
- 5 Motor Bridge "AC" In
- 6
- 7
- 8 Bell Alarm - Normal
- 9 Bell Alarm - Normal
- 10
- 11 Bell Alarm - Emergency
- 12 Bell Alarm - Emergency

S6 - Device Panel  
P6 - Logic Panel

- 1 Service Entrance Switch
- 2 Service Entrance Switch
- 3 Service Entrance Switch
- 4 Service Entrance Indicator
- 5 Service Entrance Switch
- 6 Service Entrance Switch

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# Cutler-Hammer Automatic Transfer Switch Wiring Diagrams

## Directions for Use

The drawing package can be used as a point to point wiring diagram for maintenance and diagnostic purposes for the AGswitch Transfer Switches, all voltages.

This document contains the following wiring information:

- Basic wiring diagram.
- Legend Sheet describing symbols used though out this document.

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## Legend Sheet

AMBER	S.E. Indicator - Illuminates when SDSS is in "De-Energize"
ER	Emergency Relay - Energized when Emer. is Available
ERA	Emergency Auxiliary Relay - Energized when Emer. is Available
ERB	Emergency Auxiliary Relay - Energized when Emer. is Available
ETx	Emergency Transformer - Control Power for Microprocessor
KF	Fail-safe Relay - Energized when in Normal Position
GREEN	Normal Indicator - Illuminates when in Normal Position
NR	Normal Relay - Energized when Normal is Available
NRA	Normal Auxiliary Relay - Energized when Normal is Available and in Normal Position
NTx	Normal Transformer - Control Power for Microprocessor
PE	Plant Exerciser Clock - Weekly Transfer Exerciser Clock
PESS	Plant Exerciser Selector Switch
	"Engine Run" - When Exercised, only the Generator will Start
	"Load Test" - When Exercised the ATS will Transfer the Load
Px-y	"Plug Number x, Pin Number y"
RED	Emergency Indicator - Illuminates when in Emergency Position
Sx-y	"Socket Number x, Pin Number y"
SDSSx	Service Entrance Selector Switch
	"Energize" - ATS Normal Position
	"De-Energize" - Transfers to 'NEUTRAL' position (Key is Removable) until Returned to Energize
TDEC	Time Delay Engine Cooloff
TDEN	Time Delay Emergency to Normal
TDES	Time Delay Engine Start
TDN	Time Delay Neutral
TDNE	Time Delay Normal to Emergency
TEST	Auto/Test Selector Switch
	"Auto" - ATS Normal Operation
	"Test" - ATS will Transfer Load until Returned to "Auto"

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