EATON | Cutler-Hammer

Light Commercial/Residential Automatic Transfer Switches

Product Focus

- Transfer Switch Equipment
- Uninterruptable Power Systems
- Backup Power Systems

Security for Your Business or Home

- Prevent personal injury and generator damage.
- Prevent the loss of computer data from extended outages.
- Prevent property loss due to freezing or loss of refrigeration.
- Prevent acciden tal connection of the generator to the utility.

24-Hour Automatic Protection

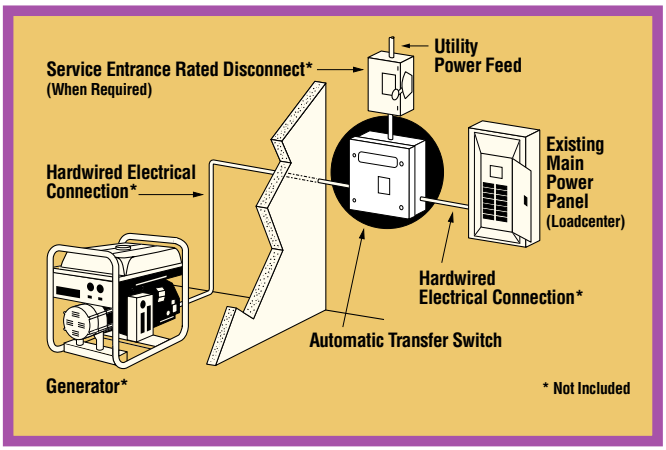
Power outages due to bad weather or utility failure have grown increasingly costly and more disruptive to businesses and homeowners. A backup power system will keep your computers, security system, heating or refrigeration system, cash registers, home health care equipment, or any system that uses electric power energized and operational. Along with your generator, a Cutler-Hammer Automatic Transfer Switch by Eaton Electrical will provide a reliable and safe backup power system for your business or home.

"Around-the-Clock" Automatic Operation

When your normal power source has been interrupted, a highly reliable Cutler-Hammer Automatic Transfer Switch will start your emergency generator and connect the backup power system to the critical circuits in your business or home. When normal power is restored, the process is reversed…automatically.

Standard Features

- Proven, highly reliable microprocessor logic provides fully automatic operation.
- 30 to 225 ampere ratings for use on 120/240 Vac, 60 Hz or 208 Vac, 60 Hz single-phase systems only.
- Fixed time delays provide simple operation – without user programming.
- Four separate time delays
  - Engine start: 10 seconds
  - Normal to emergency: 3 seconds
  - Emergency to normal: 7 minutes
  - Engine cool-down: 5 minutes



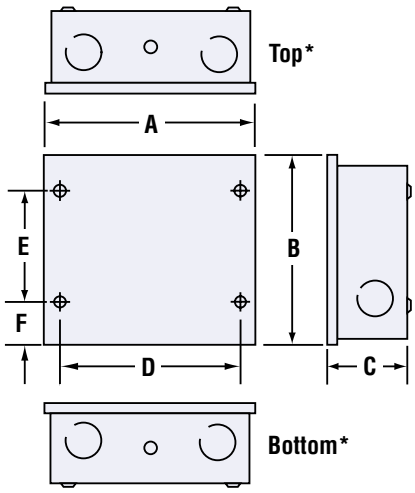
- Automatic plant exerciser with selectable day, 7-day interval, 15 minutes run time.
- High durability transfer mechanism uses industrial grade components to provide extended service life.
- NEMA 1 (indoor) enclosure or NEMA 3R (outdoor) enclosure.
- Delivered from factory completely assembled, pre-wired and tested.
- Teardrop keyhole mounting for easy, single-person installation.
- Only four connections for the installer to complete: utility power, generator power, load circuits, and engine start.
- UL 1008 Listed.

Transfer Switches Required by the National Electrical Code® Article 702-6 states: "Transfer equipment is now required on permanently installed optional standby power sources in order to better protect against inadvertent utility interconnections."

Dimensions and Weights

Inches (mm)

	Rating	
	30-100A	150-225A
A	20 (508)	20 (508)
B	18.22 (463)	28.22 (717)
C	8 (203)	8 (203)
D	16 (406)	16 (406)
E	11 (279)	15 (381)
F	4.33 (110)	5.21 (132)



Pounds (Kg)

30-100A	45 (21)
150-225A	65 (30)

* Convenient knockouts provided on top, bottom, and sides of enclosure.

Standard Withstand, Closing, and Interrupting Ratings①

Rating When Used with Upstream Circuit Breakers		Rating When Used with Upstream Fuse	
Transfer Switch Ampere Rating (kA)	240V	Maximum Rating (kA)	Fuse② Type
30	100	200	J, T
70	100	200	J, T
100	100	200	J, T
150	100	200	J, T
200	100	200	J, T
225	100	200	J, T

① *Tested in accordance with UL 1008. For maximum breaker rating in circuits where the transfer switch is evaluated as a "motor branch circuit conductor," refer to NEC Section 430-25 for sizing.*
② *Class RK Fuse with a 100 kA rating can be used.*

Catalog Number

Ordering is simplified. Just insert amperes, voltage and enclosure type desired to complete your catalog number.

RTHMFDA 2 ____ W _ U

Type
RT = Residential

Orientation
H = Horizontal

Logic
M = Microprocessor

Frame
FD = 30-200A

Switch
A = Fixed Mount Molded Case Switch

Poles
2 = 2-Poles

Amperes
0030 = 30A
0070 = 70A
0100 = 100A
0150 = 150A
0200 = 200A
0225 = 225A

Voltage
W = 120/240 V, 60 Hz, Single Phase
B = 208 V, 60 Hz, Single Phase

Enclosure
S = NEMA 1
R = NEMA 3R

Listed
U = UL Listed

For more information on Eaton Electrical Cutler-Hammer Backup Power Systems products and services, contact your local sales representative or visit our web site at www.eatonelectrical.com

Eaton Electrical
1000 Cherrington Parkway
Moon Township, PA 15108
United States
tel: 1-800-525-2000
www.eatonelectrical.com

EATON | Cutler-Hammer

©2003 Eaton Corporation
All Rights Reserved

Printed in USA
Form No. PA01600002E
November 2003