

BREAKERMATIC®

**Electronic Protector
for Air Conditioners
and for 110V
Refrigeration Equipment**

IDEAL FOR:

**Cold Counters
and Displays
Bottle Containers
Freezers
High Capacity Equipment
Ice Makers
Beverage Containers**



BREAKERMATIC® Heavy Duty is an electronic high capacity voltage protector especially designed to avoid damages in refrigeration appliances, due to alterations and other problems in the electrical supply.

It protects your equipment automatically, turning it off whenever there is a blackout or when it detects an extremely high or low voltage for the refrigerator to work safely. When the voltage returns to its normal level, the protector begins a delay cycle of 3 minutes approximately, before turning the equipment on again. This stabilizes the pressure within the refrigeration system, making the re-start smoother because the compression engine will work under a minimum load.

In its frontal panel, you will find different light signals that show the

condition of the line and of the protector.

BREAKERMATIC® Heavy Duty is highly recommended for high capacity equipment requiring high electrical power. It can supply up to 30A, which allows handling compressors up to 1HP in 110V. It has a strong built, so it can be used in businesses and in factories as well.

It connects conveniently through a terminal block covered by a security cap that prevents accidental contact with the terminals, and can be fixed easily to the wall or to the equipment's chassis with a practical support.

Check the technical specifications on the reverse for more details.

BREAKERMATIC®

the best line of electronics protectors ...

**Electronic Protector
for Air Conditioners
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Refrigeration Equipment**

**Heavy
Duty**

MODELS:

PBE-110 / PBE-110M

PBE-110: Max.: 30A /110VAC (with terminal block)

PBE-110M: Max.: 30A /110VAC (with terminal block, switch and cut-off voltage adjuster)

APPLICATION:

DOMESTIC/ INDUSTRIAL

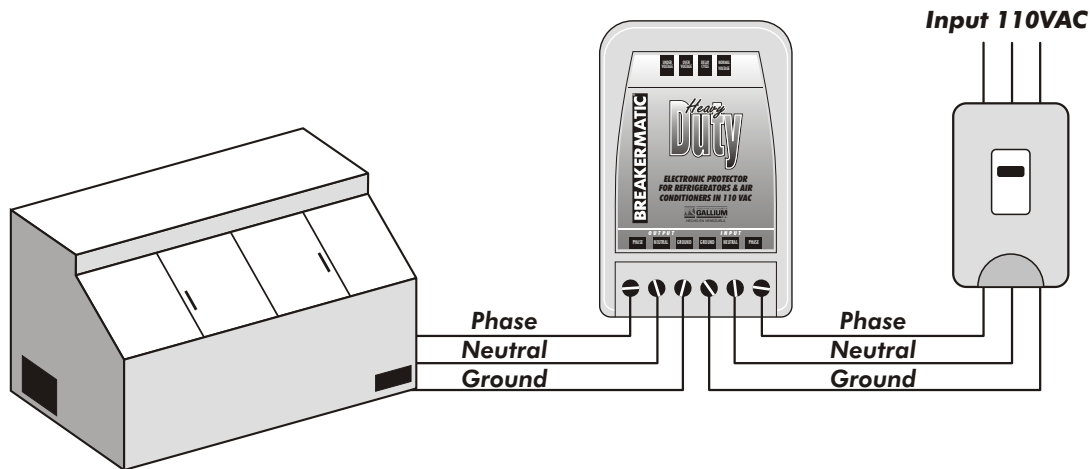
CATEGORY:

PROTECTOR

INSTALLATION AND WIRING DIAGRAM:

Identify the "Live" and "Neutral" wires coming from the breaker or interrupter. Connect it to the INPUT terminals of the **BREAKERMATIC® Heavy Duty** labeled "PHASE" and "NEUTRAL" respectively. Identify the wires going to the appliance and connect it to the OUTPUT terminals of the **BREAKERMATIC® Heavy Duty** labeled "PHASE" and "NEUTRAL". Use the "GROUND" terminals only if the appliance have a ground wire.

Upon finish the installation, be sure to attach again the terminal block cover to the **BREAKERMATIC® Heavy Duty**. Turn on the breaker or interrupter to use the protected appliance.



| CHARACTERISTICS* | MINIMUM | TYPICAL | MAXIMUM | UNITS | TOLERANCES |
|--|-----------------|-----------|---------|-----------|------------|
| Nominal Voltage | | 120 | | V r.m.s. | |
| Output current | | | 30 | A r.m.s. | |
| Switch type | | Dry Relay | | | |
| Max Cap. of refrigerator compressor | | | 1 | H.P. | |
| Output voltage range (cut off voltages) | | | | | |
| PBE-110 | 93 | | 140 | V. r.m.s. | 2% |
| (Adjustable model) PBE-110M | 80-115 | | 115-150 | V. r.m.s. | 2% |
| Delay-on-make time | | 4 | | min. | 20% |
| Response time | | 1.5 | | seg | 5% |
| Dimensions | Length | 139 | | mm. | |
| | Width | 87 | | mm. | |
| | Height | 40 | | mm. | |
| Weight (Gross weight per unit into a 6 pack box) | PBE-110 | 295 | | grs. | +/-10 |
| | PBE-110M | 305 | | grs. | +/-10 |
| Operational temperature range | 0 | | 65 | °C | |

*Technical specifications will vary according to the model and can be changed without notice.