

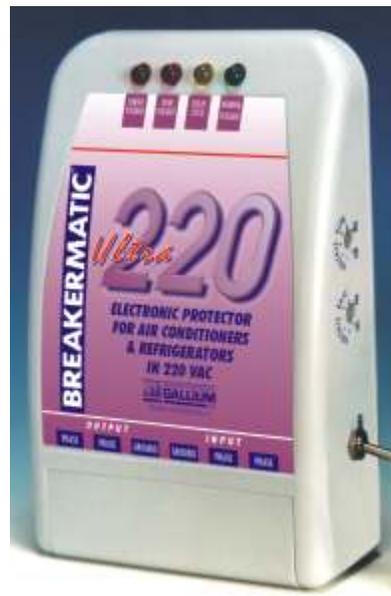
BREAKERMATIC®

Electronic Protector for Air Conditioners and Refrigeration Equipment for 220V

Ultra 220

IDEAL FOR:
One-Phase Air Conditioners up to 42,000 BTU
Window Air Conditioners*
Freezers
Counters
Bottle Containers
One-Phase Refrigeration Equipment up to 2 HP

***Also see our Ultra Plug-In**



BREAKERMATIC® Ultra 220 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 by 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.

BREAKERMATIC® Ultra 220 has a special feature called **Autostart** that reduces the delay cycle to a few seconds,

when it's connected after being disconnected for a long time. In its frontal panel, you will find different light signals that show the condition of the line and of the protector.

BREAKERMATIC® Ultra 220 is highly recommended for high capacity one-phase equipment requiring high electrical power. It can supply up to 30A, which allows handling compressors up to 2HP in 220V. It has a strong built, so it can be used in businesses and in factories as well.

It connects conveniently through a line outlet 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 through 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
and Refrigeration
Equipment for 220V

Ultra
220

MODELS:

PBE-220A / PBE-220B / PBE-220BM

PBE-220AM / PBE-220AT

Fixed Setting Protectors:

PBE-220A for air conditioners up to 42.000 B.T.U. 220VAC

PBE-220B for air conditioners up to 30.000 B.T.U. 220VAC

Adjustable Protectors:

PBE-220AM for air conditioners up to 42.000 BTU with on-off switch and adjusters for cut-off voltages.

PBE-220BM for air conditioners up to 30.000 BTU with on-off switch and adjusters for the cut-off voltages.

PBE-220AT for air conditioners up to 42.000 BTU with adjusters for the cut-off voltages and the delay-on-make time.

APPLICATION:

DOMESTIC/ INDUSTRIAL

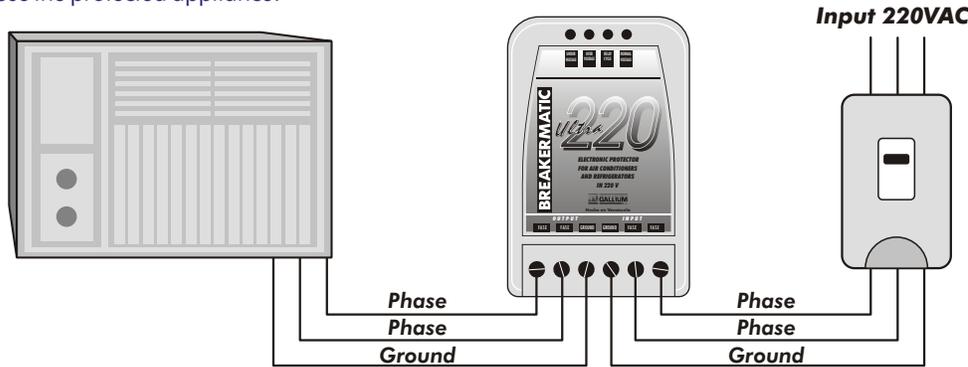
CATEGORY:

PROTECTOR

INSTALATION AND WIRING DIAGRAM:

Identify the "Live" wires coming from the breaker or interrupter. Connect it to the INPUT terminals of the **BREAKERMATIC® 220** labeled "PHASE". Identify the wires going to the appliance and connect it to the OUTPUT terminals of the **BREAKERMATIC® 220** labeled "PHASE". Use the "GROUND" terminals only if the appliance have a ground wire. NOTE: If the local electrical system have one "neutral" wire (referred to ground potential) and one "live" wire instead of two "Live" wires, connect the "neutral" wire to the most inner "PHASE" terminal.

Upon finish the installation, be sure to attach again the terminal block cover to the **BREAKERMATIC® 220**. Turn on the breaker or interrupter to use the protected appliance.



CHARACTERISTICS*	MINIMUM	TYPICAL	MAXIMUM	UNITS	TOLERANCES
Nominal Voltage		208-220		V r.m.s.	
Output current			40	A r.m.s.	
	\A, AM, AT \BM, B		30	A r.m.s.	
Switch type		Solid state Dry Relay			
	\A, AM, AT \BM, B				
Motor load			2	H.P.	
	\A, AM, AT \BM, B		1 ½	H.P.	
Output voltage range (cutoff voltages)			253	V r.m.s.	2%
	\A, B \BM, AM, AT	176	214-278	V r.m.s.	2%
Delay-on-make time		4		min.	20%
	\BM, B, AM, A Adjustable \AT	1:50-4:50		min.	20%
Dimensions	Length	139		mm.	
	Width	87		mm.	
	Height	40		mm.	
Response time		1,5		sec.	5%
Weight (Gross weight per unit into a 6 pack box)	\B	300		grs.	
	\A	305		grs.	
	\BM\AM\AT	310		grs.	
Operating temperature range	0		65	°C	

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