Breakermatic TV's & Audio

Electronic voltage protector for televisions and audio appliances

Overview

The **BREAKERMATIC TV & Audio** has been specially designed to prevent damage to your TV from a blackout or high/low voltage. It comes with a surge suppressor, which is required to protect electronic equipment. It has two outlets, allowing you to connect two devices simultaneously as long as the combined current or power does not exceed 10A or 1000W. It plugs directly into the wall outlet.

Easy to install and guaranteed 24/7 protection!

Ideal for

TVs and Monitors: LED, LCD, PLASMA, HDTV.
Satellite or Cable Decoders.

Operation

1. **Protection against steady-state voltage variations.** The BREAKERMATIC Televisions disconnects the output if the steady-state voltage is above the high cut-off voltage or below the low cut-off voltage indicated in the specifications. The response time to a fault is typically 1 s. The voltage must remain outside the range longer than the response time for the disconnection to be activated. While the fault persists, the corresponding high or low voltage indicator will remain illuminated.
2. **Reconnection delay or wait cycle.** Upon energizing the protector, or upon termination of a voltage fault, the protector will initiate a time delay before connecting the output. The duration of the time delay is indicated in the specifications. The short connection delay is designed to allow the power grid to stabilize after a service interruption
3. **Blackout detection, sag detection, etc.** The protector will disconnect the load if it detects a sudden voltage drop below 50% of the nominal voltage and initiate a standby cycle.
4. **Transient Overvoltage Suppression.** Transient overvoltages are very short-duration, high-energy voltage spikes produced by the connection or disconnection of loads or induced by lightning strikes near the electrical grid, which propagate through it until they reach the equipment. The BREAKERMATIC Televisions interrupts transient overvoltages between phase and neutral (differential mode) and between each current-carrying line and ground (common mode) without disconnecting the output.

Models

Model	Nominal Voltage	Nominal amperage	Frequency	Cut off voltages	Reconection delay	Response delay	Voltage protection level	Language
PTV110-000EST	120VAC	10A	50/60 Hz	95V-138V	5 s.	1 s.	0.6 kV	Español
PTV110-000UEM	120VAC	10A	50/60 Hz	95V–138V	5 s.	1 s.	1 kV	Inglés (Trinidad)
PTV110-000ING	120VAC	10A	50/60 Hz	95V-138V	5 s.	1 s.	0.6 kV	Ingles

BREAKERMATIC®

Fabricado por:
MAVIGAL SAS GALLIUM
NIT 900.340.440-0
Teléfono 876 4576 Fax 876 7227
Autopista Medellín Km. 2.5. Entrada Parcelas 900 Mts
CIEM OIKOS OCCIDENTE - Bodega B27
Cota – Cundinamarca - Colombia

Specifications

Electrical			
Nominal Voltage	120		VAC
Nominal Frequency	50 - 60		Hz
Steady state voltage protection			
Low cut-off voltage	95 +/- 3%		VAC
High cut-off voltage	138 +/- 3%		VAC
Reconnection Hysteresis	3 - 6		VAC
Response delay	1 +/- 20%		s.
Reconnection delay cycle	5 +/- 20%		s.
Blackout detection			
Minimum blackout duration (0% nominal voltage)	32 -64		ms
Minimum brownout duration (50% nominal voltage)	>100		ms
Transient voltage suppressor			
IEEE C62.41 Location	Cat. A3		
	PTV110-000EST PTV110-000ING	PTV110-000UEM	
Allowed Maximum continuous voltage (r.m.s.) Phase-neutral Phase-ground	 175 175	 300 300	 VAC VAC
Voltage protection level (clamping voltage). Phase-neutral Phase-ground	 0.6 0.6	 1.0 1.0	 kV kV
Maximum peak current (1 time, 8/ 20 us) Phase-neutral Fase - Tierra	 6.5 6.5	 6.5 6.5	 kA kA
Maximum peak current (2 times) Phase-neutral Fase - Tierra	 4 4	 4 4	 kA kA
Energy (10/1000 us)	3 x 158	3 x 280	J
Applied standards	IEC 61000-4-5:2005 / NMX-J-610/4-5:2013 NMX-J-508 num. 6.2.8 Pass		
Maximum load			
Load Current (Amperage) Power	 10 1200		 A W
Mechanicals			
Dimensions			
Length	96		mm
Width	63		mm
Height	30		mm
Weight	147		gr.
Connections			
Input plug	NEMA 5-15P		
Output Receptacle	2x NEMA 5-15R		
Applied standards	NTC 1650 num. 10.1, 16, 17.2, 19, 21, 24, 29 NMX-J-508 6.2.3, 6.3.2, 6.3.3		
Isolation materials			
Enclosure	ABS		
Receptacle	PC		
Printed circuit board	FR4		
Flame retardant classification (UL94)			
Enclosure	V0, 5VA		
Plug and Receptacle	V0		
Printed circuit board	V0		
Glow wire test (NTC 5283:2015, NMX-J-565/2-11:2005)	Enclosure 650°C pass Receptacle 850°C pass		
Ball pressure test NTC 1650 num. 25.2 y 25.3	<2		mm.
Isolation resistance NTC1650:2004 Num 17.1 NMX-J-508 num. 6.2.1	 >550 >5		Mohms
Dielectric strength NTC1650:2004 num 17.2 NMX-J-508 num. 6.2.2	 >1.25 >1.24		kV

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Impact (NTC /IEC 62262:2013)	pass	
Contacts		
Material	Brass 260 (70% Cu, 30% Zn)	
Oxidation Resistance Test (NTC 1650 num 29)	It shows no traces of corrosion or oxidation.	
Environmental		
Maximum operating ambient temperature	45	°C
Place of use: Indoor use, in a dry and ventilated place Outdoor use and/or in wet places	Si No	

Product certificates

NOM NOM-003-SCFI Cerificate No.: ANC2401C00016056 hasta 25/12/2025

Shipping packaging

Type	Capacity	Dimensions (Length xWidth x Height) (cm)	Weight (Kg)
Carton CC72	72 pcs (12 x 6 pack o 2 x 36 pack)	58 x 33 x 52	14.70
Carton CC60	60 pcs (10 x 6 pack)	51 x 35 x 50	12.40
Carton CC36pack	36 pcs in blister	52 x 30 x 25	6.5
Carton CC 6 pack	6 pcs in blister	24 x 19 x 16	1.2

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