Breakermatic Audio& Video

Electronic voltage protector for audio and video electronic devices

Overview

The **BREAKERMATIC AUDIO&VIDEO** has been specially designed to prevent damage to your audio and video electronics from a blackout or high/low voltage. It comes with a surge suppressor required for their protection. It has two outlets, allowing you to connect two devices simultaneously as long as the combined current or power does not exceed 10A or 1200W. It plugs directly into a wall outlet.

Ideal for:

- Video Game Consoles
- Sound Systems
- Blu-ray
- DVD
- Home Theater

Operation

1. Protection against steady-state voltage variations. The BREAKERMATIC Audio & Video 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.Blackout detection, “sag”, etc.
3. Blackout detection, sag detection, etc. The protector will immediately 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. They propagate through the grid until they reach the equipment. The BREAKERMATIC Audio & Video 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
PAU110-000EST	120VAC	10A	50/60 Hz	95V-138V	5 s.	1 s	0.6kV	Español

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

CO13/5465

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	
Allowed Maximum continuous voltage (r.m.s.) Phase-neutral Phase-ground	 175 175	 VAC VAC
Voltage protection level (clamping voltage). Phase-neutral Phase-ground	 0.6 0.6	 kV kV
Maximum peak current (1 time, 8/ 20 us) Phase-neutral Fase - Tierra	 6.5 6.5	 kA kA
Maximum peak current (2 times) Phase-neutral Fase - Tierra	 4 4	 kA kA
Energy (10/1000 us)	3 x 158	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	
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	Yes No	

Product certificates

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

Shipping packaging

Type	Capacity	Dimensions (Length x Width 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 en blister	52 x 30 x 25	6.5
Carton CC 6 pack	6 pcs en blister	24 x 19 x 16	1.2

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