



BREAKERMATIC

Office

Electronic voltage protector for printing equipment, photocopiers, plotters and office equipment.

Overview

The BREAKERMATIC OFFICE has been specifically designed to prevent damage to your copiers, printers, plotters, or other office electronics caused by a power outage or high/low voltage. It comes with a surge suppressor, which is required for protection. It plugs directly into a wall outlet.

Ideal for:

- Printers
- Plotters
- Laminators and laminators
- Photocopiers

Operation

1. **Protection against steady-state voltage variations.** The BREAKERMATIC OFFICE 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. In the case of adjustable equipment, the cut-off voltages can be set within the ranges 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 lit.
2. **Reconnection delay or wait cycle.** When the protector is energized, or at the end 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 wait cycle will allow the power grid to stabilize before restoring operation of the equipment, avoiding transients and other disturbances present when reconnecting the electrical service.
3. **Detection of blackouts, sags, etc.** The protector will instantly disconnect the load if it detects a sudden voltage drop below 50% of the nominal voltage and will initiate a standby cycle.
4. **Suppression of transient over voltages.** Transient over voltages are very short-duration, high-energy voltage spikes produced by the connection or disconnection of loads or induced by atmospheric discharges near the electrical grid, which propagate through it until they reach the equipment. The BREAKERMATIC OFFICE cuts transient over voltages 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	Reconnection delay	Response delay	Connections	Voltage protection level	On-off switch	Language
POF110-000EST	120VAC	15A	50/60 Hz	95V-138V	5 s	1 s	NEMA 6-15	0.6 kV	No	Spanish
POF110-000UEM	120VAC	15A	50/60 Hz	95V-138V	5 s	1 s	NEMA 6-15	1 kV	No	English

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BREAKERMATIC

Fabricado por:



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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 / B3		
	POF110-000EST	POF110-000UEM	
Allowed Maximum continuous voltage (r.m.s.)			
Phase-Neutral	175	175	VAC
Phase-Ground	175	300	VAC
Neutral-Ground	175	300	VAC
Voltage protection level (clamping voltage).			
Phase-Neutral	0.6	0.6	kV
Phase-Ground	0.6	1	kV
Neutral-Ground	0.6	1	kV
Maximum peak current (1 time, 8/ 20 us)			
Phase-Neutral	6.5		kA
Phase-Ground	6.5		kA
Neutral-Ground	6.5		kA
Maximum peak current (2 times)			
Phase-Neutral	4		kA
Phase-Ground	4		kA
Neutral-Ground	4		kA
Energy (10/1000 us)	3 x 158	2x280, 1x158	J
Maximum load			
Maximum Resistive Load (cos ϕ = 1)			
Current (Amperage)	15		A
Power	3.3		KW
Apparent Power (No load)	8.5		VA
Mechanicals			
Dimensions			
Length	135		mm
Width	87		mm
Height	45		mm
Weight	237		gr.
Connections			
Input plug		NEMA 6-15P	
Output Receptacle		NEMA 6-15R	
Isolation materials			
Enclosure		ABS	
Plug and Receptacle		PC	
Printed circuit board		FR4	
Flame retardant classification (UL94)			
Enclosure		V0, 5VA	
Plug and Receptacle		V0, 5VA	
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)		>550	Mohms
Dielectric strength (NTC1650:2004 num 17.2)		>1.25	kV
Impact (NTC /IEC 62262:2013)		pass	
Contacts			
Material	Tinned Brass 260 (70% Cu, 30% Zn) Electroplated Sn		
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	Yes		
Outdoor use and/or in wet places	No		

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Fabricado por:

MAVIGAL SAS
GALLIUM

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Product certificates

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

Application notes

The BREAKERMATIC OFFICE can be connected to more than one printing or office equipment simultaneously, provided the current limit is not exceeded.

Shipping packaging

Type	Capacity	Dimensions (Length x Width x Height) (cm)	Weight (Kg)
Carton corrugado CC54	54 pcs (9 x 6 pack)	51 x 35 x 50	16.3
CC 6 pack	6 pcs en blister	33.5 x 16 x 16	1.81