



Breakermatic Lavadoras

Electronic voltage protector for washing machines and dishwashers

Overview

The BREAKERMATIC LAVADORAS has been specially designed to prevent damage to your washing machine, dryer, or dishwasher from a power outage or high/low voltage. It plugs directly into an electrical outlet.

Ideal for:

Washers
Dryers (120V)
Dishwashers

Operation

1. **Protection against steady-state voltage variations.** The **BREAKERMATIC LAVADORAS** 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 wait cycle.
4. **Transient Overvoltage Suppression.** Transient over voltages 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 LAVADORAS** interrupts 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	Voltage protection level	Language
PLA110-150EST	120VAC	15A	50/60 Hz	95V-138V	5 s.	1 s	0.6kV	Spanish

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	175	VAC
Phase-ground	175	VAC
Voltage protection level (clamping voltage).		
Phase-neutral	0.6	kV
Phase-ground	0.6	kV
Maximum peak current (1 time, 8/ 20 us)		
Phase-neutral	6.5	kA
Phase-ground	6.5	kA
Maximum peak current (2 times)		
Phase-neutral	4	kA
Phase-ground	4	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 (Adding loads on both outputs)		
Current (Amperage)	15	A
Power	1800	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

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	Yes	
Outdoor use and/or in wet places	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	12.45
Carton CC36pack	36 pcs blister	52 x 30 x 25	6.2
CC 6 pack	6 pcs blister	24 x 19 x 16	1.2