

VOLTAGE PROTECTOR

Protection for all electrical and electronic equipment



WENZHOU NATURAL AUTOMATION
EQUIPMENT CO., LTD.

www.china-natural.cn



Natural[®]

About Us

Wenzhou Natural Automation Equipment Co., Ltd. is committed to serving the global Voltage Protector market more than 20 years. Its products cover British, American, European and South African standards. The current rating ranges from 5A to 250A. Wenzhou Natural can provide users with power solutions at any time, and strive to provide customers with pre-sales and after-sales services. Wenzhou Natural adapts the most modern production equipment and a complete quality assurance system, via the global selection of high-quality component suppliers and the use of high-standard raw materials, the quality of our products is almost perfect. Our sales network have spread to more than 50 countries and regions around the world, welcome new customers to discuss cooperation matters and seek common business development.



Safe Energy



Auto Voltage Protector

Protection for all electrical and electronic equipment




















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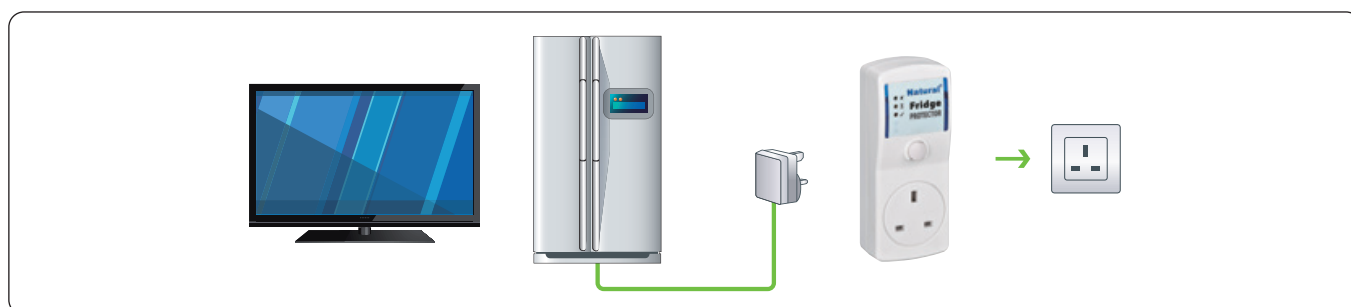
Protects against low voltage, brown-outs and voltage dips. These conditions are harmful to fridges, freezers, pumps and all motor equipments.

By disconnecting the power when it is bad, the Fridge Protector safeguards short term and long term damage to ensure higher efficiency from your appliances. 90 seconds start-up delay is built-in to protect against frequent fluctuations to ensure proper compressor shutdown and start-up.

Technical Data

Model	Fridge Protector	TV Protector	Volt Protector
			
Socket/Plug	UK Socket+UK Plug, Multiple Socket+UK Plug	UK Socket+UK Plug, Multiple Socket+UK Plug	UK Socket+UK Plug, Multiple Socket+UK Plug
Nominal Voltage	230V	230V	230V
Current Rating	7A/10A/13A	7A/10A/13A	7A/10A/13A
Frequency	50/60Hz	50/60Hz	50/60Hz
Low Disconnect	180VAC	-	180VAC
Low Reconnect	185VAC	-	185VAC
High Disconnect	-	260VAC	260VAC
High Reconnect	-	255VAC	255VAC
Response Time	<10ns	<10ns	<10ns
Discharge Amps	6.5kA	6.5kA	6.5kA
Spike Protection	160J	160J	160J
Wait Time	90 Seconds	30 seconds	60 seconds
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0
Voltage Protection for	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps.	TV, LCD/Plasma screens, Hi-fi/Media centres	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps, 1HP or 1.5HP Air Conditioners, TV, DVD, HIFI, Media Centers, Fax.
Offer Protection Function for Home Appliances	 Low Voltage  Spikes/ Surges  Power-Back Surges  Basic Lightning	 High Voltage  Spikes/ Surges  Power-Back Surges  Basic Lightning	 High Voltage  Low Voltage  Spikes/ Surges  Power-Back Surges  Basic Lightning



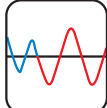

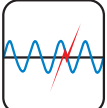
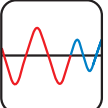

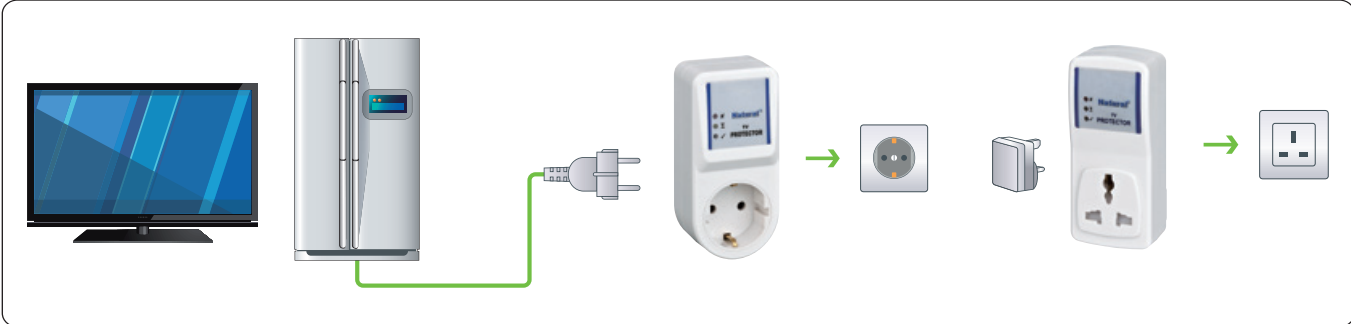
Connection Diagram:



Protects against low voltage, brown-outs and voltage dips. These conditions are harmful to fridges, freezers, pumps and all motor equipments.

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












Technical Data

Model	Volt Protector 7A/10A/13A/16A Multiple Type	Volt Protector 7A/10A/13A/16A EU Type
With LED display to show Voltage		
Socket/Plug	Multi Socket, UK Plug	EU Socket, EU plug
Nominal Voltage	230V	230V
Current Rating	7A/10A/13A	7A/10A/13A/16A
Frequency	50/60Hz	50/60Hz
Low Disconnect	180VAC	180VAC
Low Reconnect	185VAC	185VAC
High Disconnect	260VAC	260VAC
High Reconnect	255VAC	255VAC
Response Time	<10ns	<10ns
Discharge Amps	6.5kA	6.5kA
Spike Protection	160J	160J
Wait Time	30 seconds or 3 minutes adjust	30 seconds or 3 minutes adjust
Switch	Yes	Yes
LED Display	Yes	Yes
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0
Voltage Protection for	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps, 1HP or 1.5HP Air Conditioners, TV, DVD, HIFI, Media Centers, Fax.	
Offer Protection Function for Home Appliances	 High Voltage  Low Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning	
Connection Diagram:		

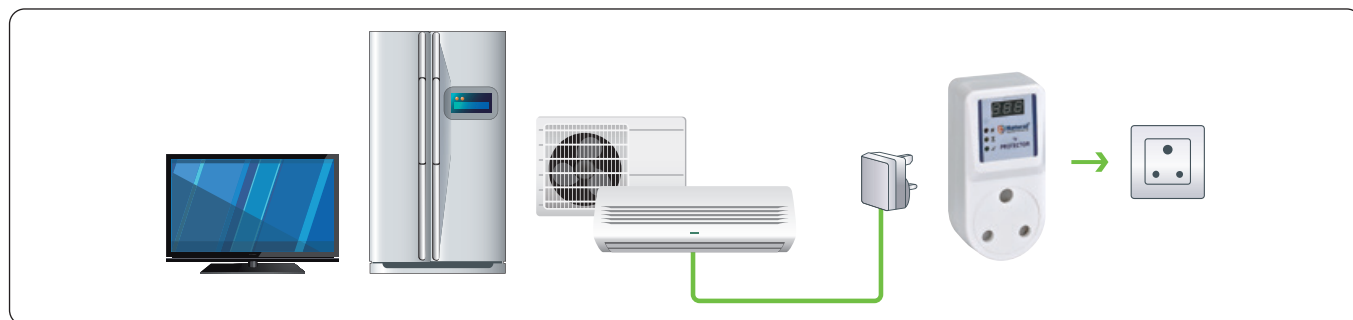
Protects against low voltage, brown-outs and voltage dips. These conditions are harmful to fridges, freezers, pumps and all motor equipments.

By disconnecting the power when it is bad, the Fridge Protector safeguards short term and long term damage to ensure higher efficiency from your appliances. 90 seconds start-up delay is built-in to protect against frequent fluctuations to ensure proper compressor shutdown and start-up.

Technical Data

Model	TV Protector	Fridge Protector	TV/Fridge Protector
			
Socket/Plug	South Africa Socket, South Africa Plug	South Africa Socket, South Africa Plug	South Africa Socket, South Africa Plug
Nominal Voltage	230V	230V	230V
Current Rating	7A/10A/13A/15A/16A	7A/10A/13A/15A/16A	7A/10A/13A/15A/16A
Frequency	50/60Hz	50/60Hz	50/60Hz
Low Disconnect	/	180VAC	180VAC
Low Reconnect	/	185VAC	185VAC
High Disconnect	260VAC	/	260VAC
High Reconnect	255VAC	/	255VAC
Response Time	<10ns	<10ns	<10ns
Discharge Amps	6.5kA	6.5kA	6.5kA
Spike Protection	160J	160J	160J
Wait Time	30 seconds	90 seconds	90 seconds
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0
Voltage Protection for	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps, 1HP or 1.5HP Air Conditioners, TV, DVD, HIFI, Media Centers, Fax.		
Offer Protection Function for Home Appliances	 Low Voltage  Spikes/ Surges  Power-Back Surges  Basic Lightning	 High Voltage  Spikes/ Surges  Power-Back Surges  Basic Lightning	 High Voltage  Low Voltage  Spikes/ Surges  Power-Back Surges  Basic Lightning



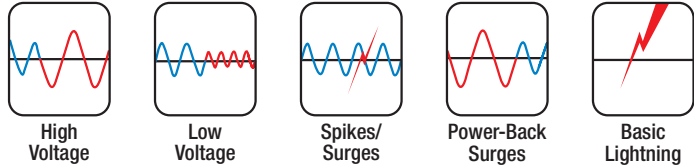
Connection Diagram:



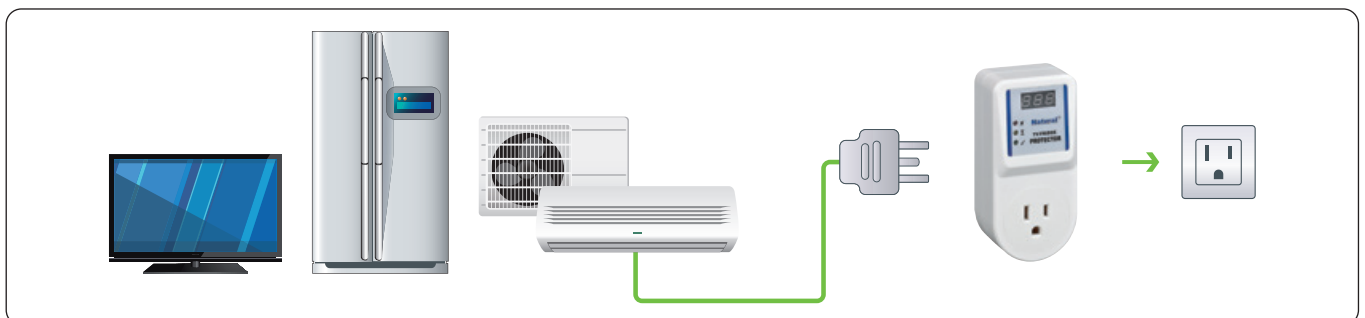
Protects against low voltage, brown-outs and voltage dips. These conditions are harmful to fridges, freezers, pumps and all motor equipments.

By disconnecting the power when it is bad, the Fridge Protector safeguards short term and long term damage to ensure higher efficiency from your appliances. 90 seconds start-up delay is built-in to protect against frequent fluctuations to ensure proper compressor shutdown and start-up.

Technical Data

Model	Volt Protector	Volt Protector
		
	<p>With LED display to show Voltage</p>	
Socket/Plug	US Socket, US Plug	US Socket, US Plug
Nominal Voltage	230V	110V
Current Rating	10A/13A/15A/16A	10A/13A/15A/16A
Frequency	50/60Hz	50/60Hz
Low Disconnect	180VAC	90VAC
Low Reconnect	185VAC	93VAC
High Disconnect	260VAC	135VAC
High Reconnect	255VAC	132VAC
Response Time	<10ns	<10ns
Discharge Amps	6.5kA	6.5kA
Spike Protection	160J	160J
Wait Time	30 seconds or 3 minutes adjust	30 seconds or 3 minutes adjust
Switch	Yes	Yes
LED Display	Yes	Yes
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0
Voltage Protection for	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps, 1HP or 1.5HP Air Conditioners, TV, DVD, HIFI, Media Centers, Fax.	
Offer Protection Function for Home Appliances		

Connection Diagram:



Protects against low voltage, brown-outs, voltage dips and surges. These conditions are harmful to fridges, freezers, coolers and all motor equipment. By disconnecting the power when it is bad, the Fridge Protector safeguards against short term and long term damage to ensure higher efficiency from your appliances. 3 minute start-up delay is built-in to protect against frequent fluctuations to ensure proper compressor shutdown and start-up. With Sense technology you can adjust the sensitivity of the Fridge Protector to either HIGH (for areas of fairly stable electricity) or LOW (for areas of frequent voltage fluctuations).







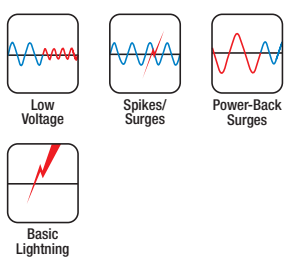
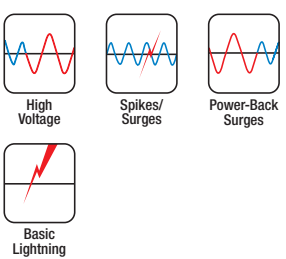
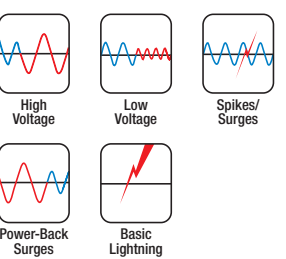
Sense Function

The Sense technology allows you to control how sensitive the Fridge Protector is to voltage problems. Using the Sense dial you can set the desired level of protection.

(H) High setting ensures greater protection by narrowing the acceptable voltage limits. This is ideal for users with less erratic mains supply that require better protection, typically in main cities where the power supply is fairly stable.

(L) Low setting ensures more working time as it will tolerate wider acceptable voltage limits. This is ideal for users with more erratic mains supply that constantly switches off, providing wider window of acceptable voltage limits.


















Technical Data

Model	Fridge Protector	TV Protector	Volt Protector
	 UKF-S	 TP-UK-S TP-M-S	
Socket/Plug	UK Socket+UK Plug, Multiple Socket+UK Plug	UK Socket+UK Plug, Multiple Socket+UK Plug	UK Socket+UK Plug, Multiple Socket+UK Plug
Nominal Voltage	230V	230V	230V
Current Rating	5A/7A/10A/13A	5A/7A/10A/13A	7A/10A/13A/15A
Frequency	50/60Hz	50/60Hz	50/60Hz
Low Voltage-LVD High Sensitivity	Disconnect: 185VAC Reconnect: 190VAC	-	Disconnect: 185VAC Reconnect: 190VAC
Low Voltage-LVD Low Sensitivity	Disconnect: 175VAC Reconnect: 180VAC	-	Disconnect: 175VAC Reconnect: 180VAC
High Voltage-LVD High Sensitivity	-	Disconnect: 265VAC Reconnect: 260VAC	Disconnect: 265VAC Reconnect: 260VAC
High Voltage-LVD Low Sensitivity	-	Disconnect: 255VAC Reconnect: 250VAC	Disconnect: 255VAC Reconnect: 250VAC
Response Time	<10ns	<10ns	<10ns
Discharge Amps	6.5kA	6.5kA	6.5kA
Spike Protection	160J	160J	160J
Wait Time	90 Seconds	30 Seconds	High Voltage: 30 Seconds Low Voltage: 3 minutes.
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0
Voltage Protection for	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps.	TV, LCD/Plasma screens, Hi-fi/Media centres	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps, 1HP or 1.5HP Air Conditioners, TV, DVD, HIFI, Media Centers, Fax.
Offer Protection Function for Home Appliances			

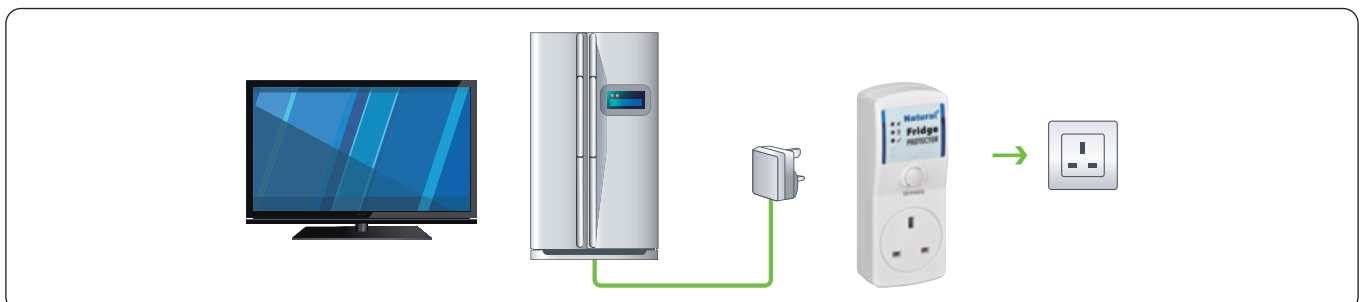
Protects against low voltage, brown-outs and voltage dips. These conditions are harmful to fridges, freezers, pumps and all motor equipments.

By disconnecting the power when it is bad, the Fridge Protector safeguards short term and long term damage to ensure higher efficiency from your appliances. 90 seconds start-up delay is built-in to protect against frequent fluctuations to ensure proper compressor shutdown and start-up.

Technical Data

Model	Fridge Protector	TV Protector	Volt Protector
			
Socket/Plug	UK Socket+UK Plug, Multiple Socket+UK Plug	UK Socket+UK Plug, Multiple Socket+UK Plug	UK Socket+UK Plug, Multiple Socket+UK Plug
Nominal Voltage	230V	230V	230V
Current Rating	7A/10A/13A	7A/10A/13A	7A/10A/13A
Frequency	50/60Hz	50/60Hz	50/60Hz
Low Disconnect	180VAC	-	180VAC
Low Reconnect	185VAC	-	185VAC
High Disconnect	-	260VAC	260VAC
High Reconnect	-	255VAC	255VAC
Response Time	<10ns	<10ns	<10ns
Discharge Amps	6.5kA	6.5kA	6.5kA
Spike Protection	160J	160J	160J
Wait Time	90 Seconds	30 seconds	60 seconds
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0
Voltage Protection for	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps.	TV, LCD/Plasma screens, Hi-fi/Media centres	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps, 1HP or 1.5HP Air Conditioners, TV, DVD, HIFI, Media Centers, Fax.
Offer Protection Function for Home Appliances	 Low Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning	 High Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning	 High Voltage  Low Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning
























Connection Diagram:



Protects against low voltage, brown-outs and voltage dips. These conditions are harmful to fridges, freezers, pumps and all motor equipments.

By disconnecting the power when it is bad, the Fridge Protector safeguards short term and long term damage to ensure higher efficiency from your appliances. 90 seconds start-up delay is built-in to protect against frequent fluctuations to ensure proper compressor shutdown and start-up.


















Technical Data

Model	Fridge Protector	TV Protector	Volt Protector
 UK Type  EU Type  South Africa Type  India Type	 	 	 
Socket/Plug	UK Socket+UK Plug / Multiple Socket+UK Plug EU Socket+EU Plug South Africa Socket+South Africa Plug India Socket+India Plug	UK Socket+UK Plug / Multiple Socket+UK Plug EU Socket+EU Plug South Africa Socket+South Africa Plug India Socket+India Plug	UK Socket+UK Plug / Multiple Socket+UK Plug EU Socket+EU Plug South Africa Socket+South Africa Plug India Socket+India Plug
Nominal Voltage	230V	230V	230V
Current Rating	7A/10A/13A/15A/16A	7A/10A/13A/15A/16A	7A/10A/13A/15A/16A
Frequency	50/60Hz	50/60Hz	50/60Hz
Low Disconnect	180VAC	-	180VAC
Low Reconnect	185VAC	-	185VAC
High Disconnect	-	260VAC	260VAC
High Reconnect	-	255VAC	255VAC
Response Time	<10ns	<10ns	<10ns
Discharge Amps	6.5kA	6.5kA	6.5kA
Spike Protection	160J	160J	160J
Wait Time	90 Seconds	30 Seconds	60 Seconds
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0
Voltage Protection for	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps.	TV, LCD/Plasma screens, Hi-fi/Media centres	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps, 1HP or 1.5HP Air Conditioners, TV, DVD, HIFI, Media Centers, Fax.
Offer Protection Function for Home Appliances	 Low Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning	 High Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning	 High Voltage  Low Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning

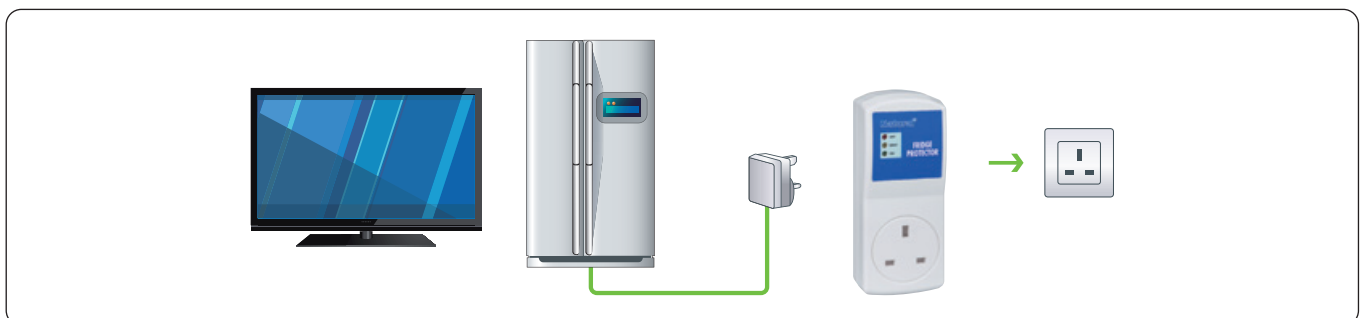
Protects against low voltage, brown-outs and voltage dips. These conditions are harmful to fridges, freezers, pumps and all motor equipments.

By disconnecting the power when it is bad, the Fridge Protector safeguards short term and long term damage to ensure higher efficiency from your appliances. 90 seconds start-up delay is built-in to protect against frequent fluctuations to ensure proper compressor shutdown and start-up.

Technical Data

Model	Fridge Protector	TV Protector	Volt Protector
			
Socket/Plug	UK Socket+UK Plug, Multiple Socket+UK Plug	UK Socket+UK Plug, Multiple Socket+UK Plug	UK Socket+UK Plug, Multiple Socket+UK Plug
Nominal Voltage	230V	230V	230V
Current Rating	7A/10A/13A	7A/10A/13A	7A/10A/13A
Frequency	50/60Hz	50/60Hz	50/60Hz
Low Disconnect	180VAC	-	180VAC
Low Reconnect	185VAC	-	185VAC
High Disconnect	-	260VAC	260VAC
High Reconnect	-	255VAC	255VAC
Response Time	<10ns	<10ns	<10ns
Discharge Amps	6.5kA	6.5kA	6.5kA
Spike Protection	160J	160J	160J
Wait Time	90 Seconds	30 Seconds	60 Seconds
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0
Voltage Protection for	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps.	TV, LCD/Plasma screens, Hi-fi/Media centres	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps, 1HP or 1.5HP Air Conditioners, TV, DVD, HIFI, Media Centers, Fax.
Offer Protection Function for Home Appliances	 Low Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning	 High Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning	 High Voltage  Low Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning





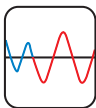
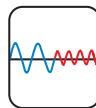
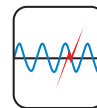
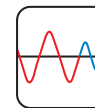

Connection Diagram:



The AVP is an Automatic Voltage Protector rated at 30/40Amps (AVP30/AVP40). The AVP will switch off the equipment connected to it if the mains power goes outside preset acceptable limits and will re-connect automatically - when the mains power returns to normal. Re-connection takes place after a delay ('the start-up delay') to ensure stability of the mains.

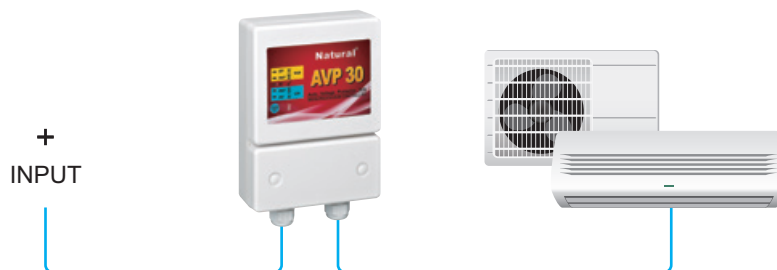
In addition, the start-up delay provides protection against power-back surges commonly experienced after resumption of power in a power cut situation. Surge and spike protection is also incorporated to ensure protection against these commonly occurring events.

Technical Data

Model	AVS30	AVP30	AVP40		
					
Nominal Voltage	230V	230V	230V		
Current Rating	30A	30A	40A		
Frequency	50/60Hz	50/60Hz	50/60Hz		
Over-Voltage Disconnect	260V	260V	260V		
Over-Voltage Reconnect	258V	258V	258V		
Under-Voltage Disconnect	185V	185V	185V		
Under-Voltage Reconnect	190V	190V	190V		
Mains Spike Response Time	<10ns	<10ns	<10ns		
Mains Spike Discharge Amps	6.5kA	6.5kA	6.5kA		
Spike Protection	160J	160J	160J		
Wait Time	10 Seconds to 10 Minutes	10 Seconds to 10 Minutes	10 Seconds to 10 Minutes		
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0		
Applications	All electrical and electronic appliances				
Offer Protection Function for Home Appliances	    				
	High Voltage	Low Voltage	Spikes/Surges	Power-Back Surges	Basic Lightning



Connection Diagram:

Hanging Air Conditioner, Standing Air Conditioner,
Central Air Conditioner and all big electronic and electrical equipments.

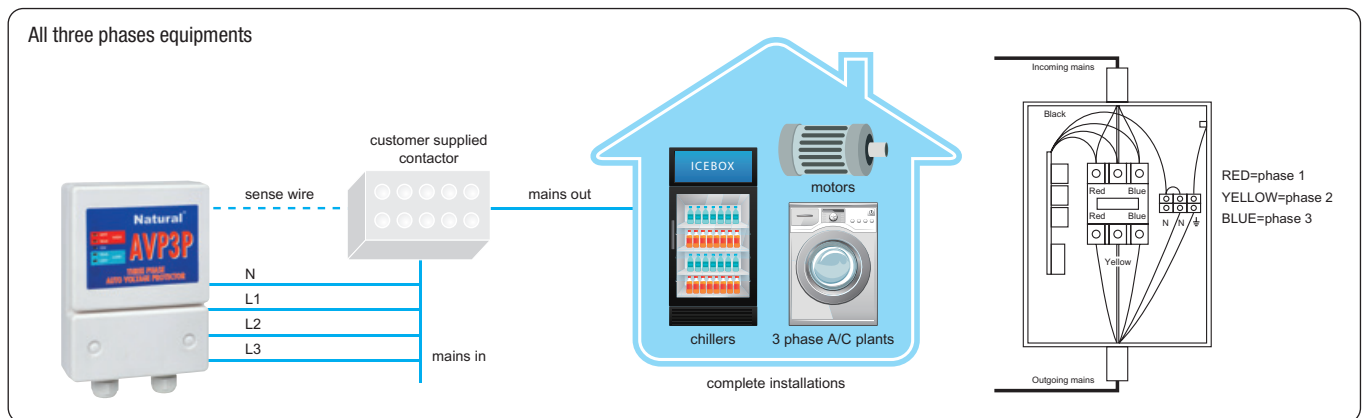


The AVP3P is an Automatic Voltage Protector designed to protect three phase loads from voltage fluctuations, over voltage, under voltage, surges, dips and frequent start/stops. The output is a single volt-free changeover contact, rated at 16A. This is intended to control an external contactor, control circuit, start/stop system or alarm. If the voltage on any one phase goes above or below the pre-set limits (the 'window'), then the AVP3P will switch off. Once the voltage returns within the window limits, the AVP3P will wait for a pre-set time, continuing to check the voltages, before automatically turning the load back on. The over voltage, under voltage and delay settings are all adjustable using controls in the terminal compartment of the AVP3P. The standard window that is considered acceptable is 185V-260V (320V-450V three phase). Outside these limits electronic and electrical equipment are likely to be damaged.

Technical Data

Model	AVP3P
	
Current	16A@230V
Nominal	230/240V
Wait Time	10 Seconds to 10 Minutes (Factory Set: 4 Minutes)
Window Limits	Adjustable
Hysteresis	4V
Socket Type	Direct via brass screw terminal
Fused Plug	N/A
RFI Protection	No
Attenuation (db)	No
Spike Protection	160J @ 230V
Max Consumption	35VA
Max Supply (phase to neutral)	320V
Material	PC Fireproof UL 94 V-0
Applications	All three phases equipments
Offer Protection Function for Home Appliances	




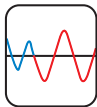
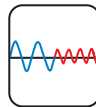
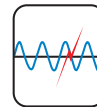
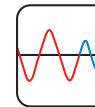

Connection Diagram:



The AVP is an Automatic Voltage Protector rated at 30Amps (AVP30N). The AVP will switch off the equipment connected to it if the mains power goes outside preset acceptable limits and will re-connect automatically - when the mains power returns to normal. Re-connection takes place after a delay ('the start-up delay') to ensure stability of the mains.

In addition, the start-up delay provides protection against power-back surges commonly experienced after resumption of power in a power cut situation.

Technical Data

Model	AVP-30N	AVP-30N
		
Nominal Voltage	230V	110V
Current Rating	30A	30A
Frequency	50/60Hz	50/60Hz
Over-Voltage Disconnect	260V	135V
Over-Voltage Reconnect	258V	132V
Under-Voltage Disconnect	185V	90V
Under-Voltage Reconnect	190V	93V
Mains Spike Response Time	<10ns	<10ns
Mains Spike Discharge Amps	6.5kA	6.5kA
Spike Protection	160J	160J
Wait Time	10 Seconds to 10 Minutes Adjustable	10 Seconds to 10 Minutes Adjustable
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0
Applications	All electrical and electronic appliances	
Offer Protection Function for Home Appliances	 High Voltage  Low Voltage  Spikes/ Surges  Power-Back Surges  Basic Lightning	

Connection Diagram:




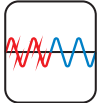
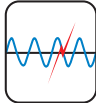


Hanging Air Conditioner, Standing Air Conditioner,
Central Air Conditioner and all big electronic and electrical equipments.



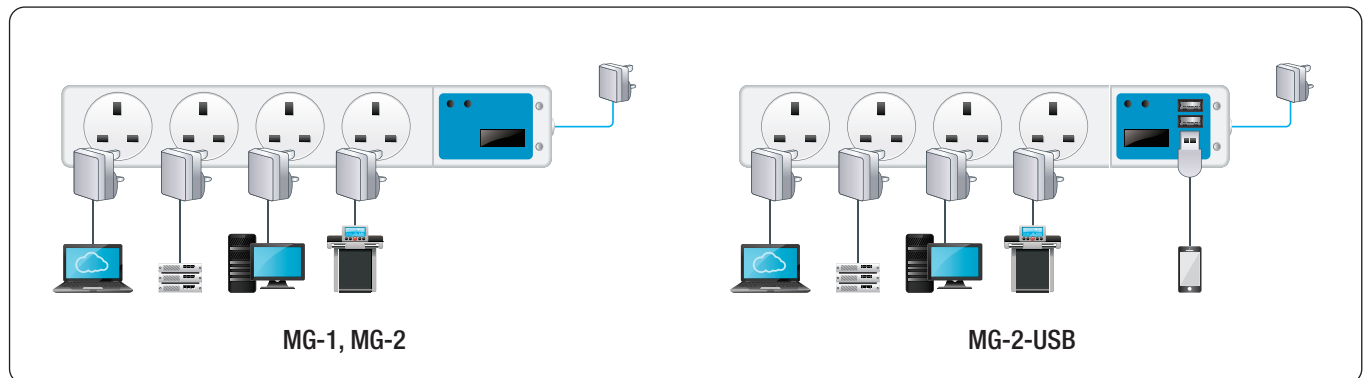
The Multi Guard MG-1 and MG-2 is a rugged 4-way protection strip. On 4 protected outlets, the Multi Guard protects against spikes/surges and has a maximum power of 13Amps.

Ideal for: IT rooms, and is especially useful for computers and ideal for home use with video, TV, Hi-Fi and all electronic appliances.

Technical Data

Multi Guard 13A	MG-1	MG-2	MG-2-USB
			
Socket Availability	UK	UK	UK
Nominal Voltage	230V	230V	230V
Current Rating	13Amps	13Amps	13Amps
Frequency	50/60Hz	50/60Hz	50/60Hz
Mains Spike Response Time	<10ns	<10ns	<10ns
Mains Spike Discharge Amps	4.5kA	4.5kA	4.5kA
Spike Protection	480J	480J	480J
Protective Mode	L-N, L-E, N-E	L-N, L-E, N-E	L-N, L-E, N-E
Cable Length	1.5m or 3m	1.5m or 3m	1.5m or 3m
Switch	NO	Yes	Yes
Power LED	Yes	Yes	Yes
USB	NO	NO	2pcs USB
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0
Protection for	Computers, Disk Drives, Software, VDU, Telex, PABX, CD ROMS, Modems, Audio Equipment, Fax, TV Video, Cash Registers etc, All electronic and electrical equipment		
Offer Protection Function for Home Appliances	 RFI/Noise  Spikes/Surges  Class III Surges/Spikes  Telecom Surges		

Connection Diagram:

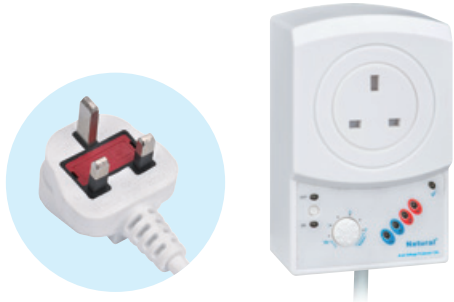
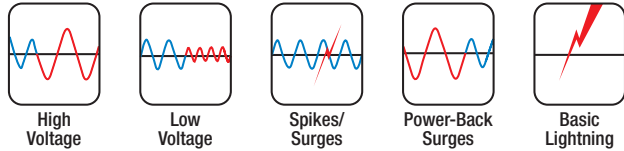


Protects against high and low voltage, brown-outs and voltage dips. These conditions are harmful to electrical and electronic equipments.

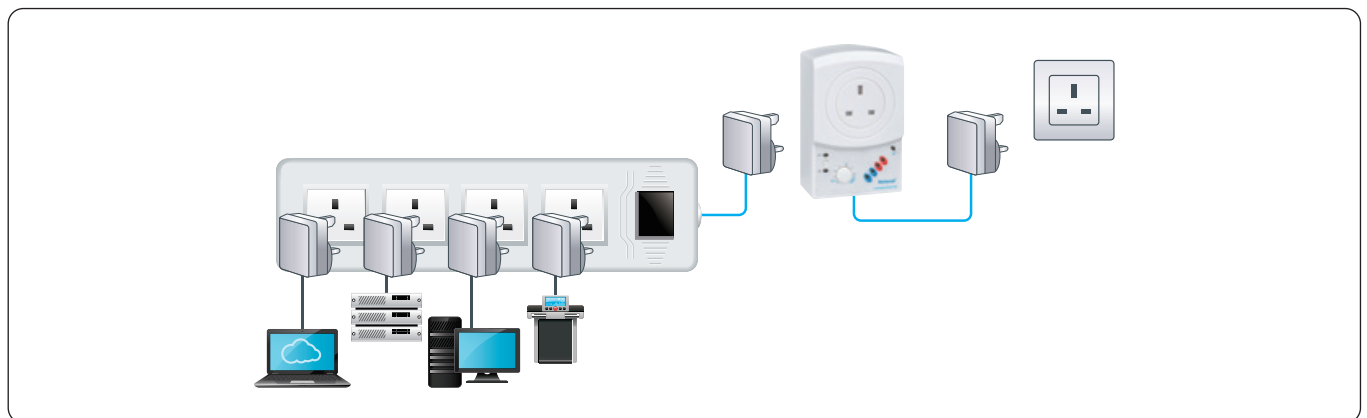
By disconnecting the power when it is bad and reconnecting automatically on return of normal power, the Auto Voltage Protector 13A safeguards and protects against short term and long term damage to ensure longevity of your appliances, especially air conditioners and refrigeration equipments.

Reconnection takes place after a start-up delay to protect against frequent fluctuations.

Technical Data

Model	AVP13
	
Nominal Voltage	230V
Current Rating	13Amps
Frequency	50/60Hz
Over-Voltage Disconnect	260V
Over-Voltage Reconnect	255V
Under-Voltage Disconnect	180V
Under-Voltage Reconnect	185V
Mains Spike Response Time	<10ns
Mains Spike Discharge Amps	6.5kA
Spike Protection	160J
Wait Time	15 Seconds to 3 Minutes
Material	PC Fireproof UL 94 V-0
Voltage Protection for	All electrical and electronic appliances
Offer Protection Function for Home Appliances	

Connection Diagram:


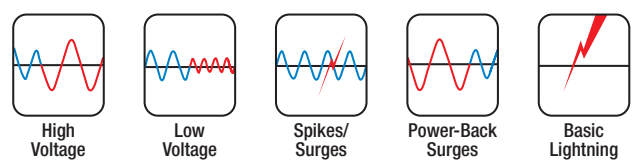


Protects against high and low voltage, brown-outs and voltage dips. These conditions are harmful to electrical and electronic equipments.

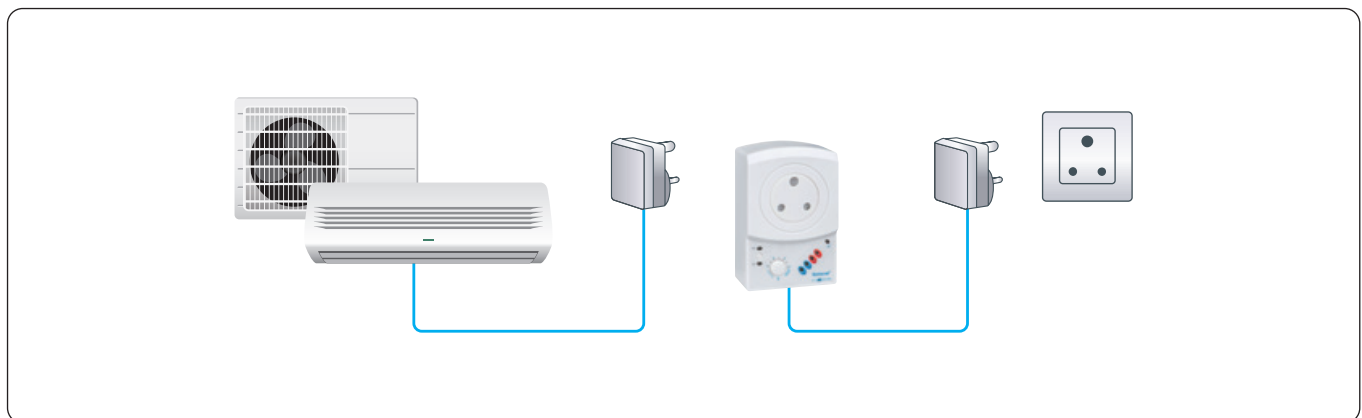
By disconnecting the power when it is bad and reconnecting automatically on return of normal power, the Auto Voltage Protector 15A safeguards and protects against short term and long term damage to ensure longevity of your appliances, especially air conditioners and refrigeration equipments.

Reconnection takes place after a start-up delay to protect against frequent fluctuations.

Technical Data

Model	AVP15
	
Nominal Voltage	230V
Current Rating	15Amps
Frequency	50/60Hz
Over-Voltage Disconnect	260V
Over-Voltage Reconnect	255V
Under-Voltage Disconnect	180V
Under-Voltage Reconnect	185V
Mains Spike Response Time	<10ns
Mains Spike Discharge Amps	6.5kA
Spike Protection	160J
Wait Time	1.5 Minutes to 5 Minutes
Material	PC Fireproof UL 94 V-0
Voltage Protection for	All electrical and electronic appliances
Offer Protection Function for Home Appliances:	

Connection Diagram:




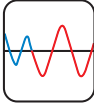
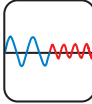
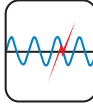
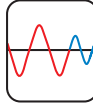

The Air Condition Protector protect against low voltage, high voltage, power-back surges, power fluctuations and surges/spikes. It features a start up delay of about 4 minutes to prevent frequent switching on and off during fluctuations.

The Air Condition Protector has a built-in microprocessor which adds the advanced feature save time to save on down time. save time means that when the mains returns to normal after any event, the Air Condition Protector checks the duration of the OFF time. If the unit has been off for more than 4 minutes then it will switch the air-conditioner on within 10 seconds rather than the standard 4 minutes. If however, the unit has been off for less than 4 minutes, the Air Condition Protector will ensure that it will remain off up to 4 minutes and then restarts automatically.

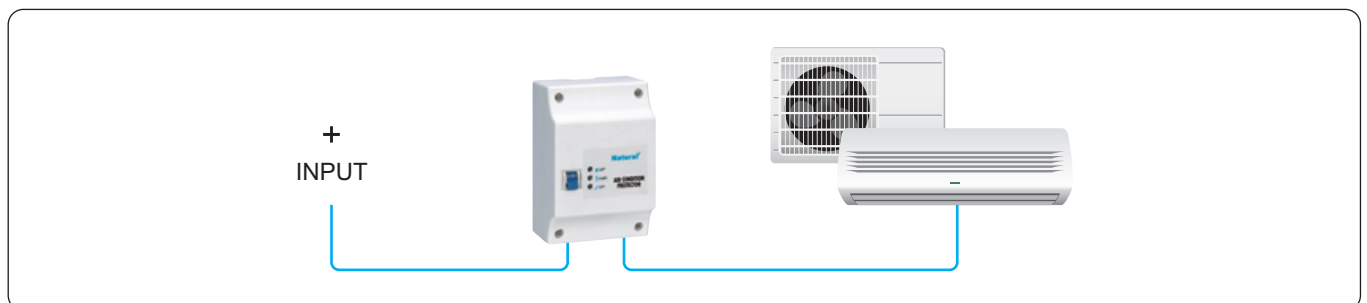
Circuit breaker function

An integral circuit breaker enhances the protection offered by the Air Condition Protector. If a short circuit or over-load occurs, the circuit breaker detects the fault and the air conditioner is safely disconnected. To resume operation, simply switch the Air Condition Protector circuit breaker on again, assuming the cause of the overload has been removed. The air conditioner will restart automatically after an intelligent time delay.

Technical Data

Model	Air Condition Protector AC16, AC20, AC25, AC32
	
Nominal Voltage	230V
Current Rating	16/20/25/32Amps
Frequency	50/60Hz
Over-Voltage Disconnect	260V
Over-Voltage Reconnect	255V
Under-Voltage Disconnect	180V
Under-Voltage Reconnect	185V
Mains Spike Response Time	<10ns
Mains Spike Discharge Amps	6.5kA
Spike Protection	160J
Wait Time	4 Minutes
Material	PC Fireproof UL 94 V-0
Applications	All electrical and electronic appliances
Offer Protection Function for Home Appliances	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>High Voltage</p> </div> <div style="text-align: center;">  <p>Low Voltage</p> </div> <div style="text-align: center;">  <p>Spikes/Surges</p> </div> <div style="text-align: center;">  <p>Power-Back Surges</p> </div> <div style="text-align: center;">  <p>Basic Lightning</p> </div> </div>





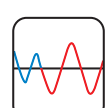
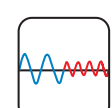
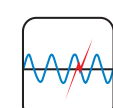
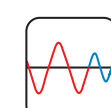

Connection Diagram:



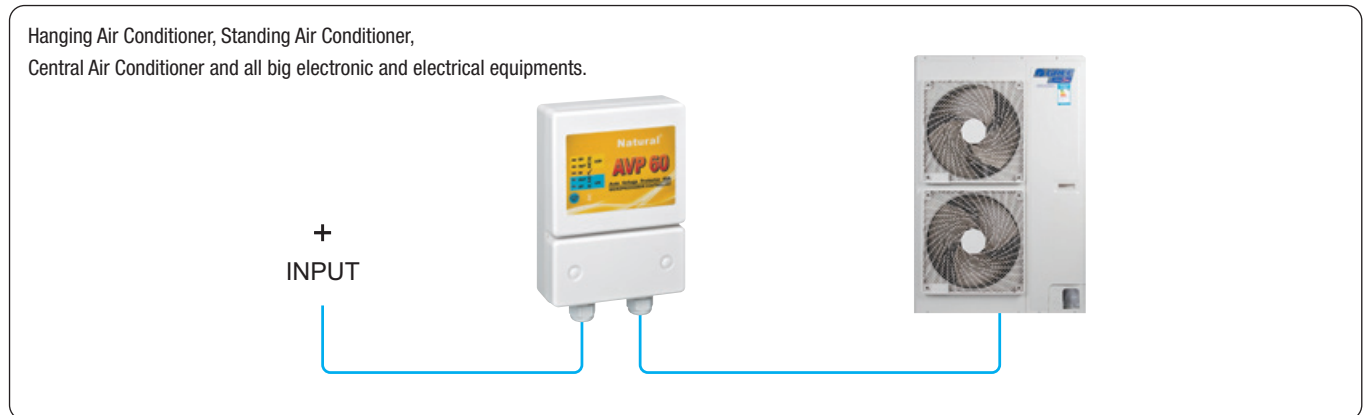
The AVP is an Automatic Voltage Protector rated at 60/80/100 Amps (AVP60/AVP80/AVP100). The AVP will switch off the equipment connected to it if the mains power goes outside preset acceptable limits and will re-connect automatically - when the mains power returns to normal. Re-connection takes place after a delay ('the start-up delay') to ensure stability of the mains.

In addition, the start-up delay provides protection against power-back surges commonly experienced after resumption of power in a power cut situation. Surge and spike protection is also incorporated to ensure protection against these commonly occurring events.

Technical Data

Model	AVP60	AVP80	AVP100
			
Nominal Voltage	230V	230V	230V
Current Rating	60A	80A	100A
Frequency	50/60Hz	50/60Hz	50/60Hz
Over-Voltage Disconnect	260V	260V	260V
Over-Voltage Reconnect	258V	258V	258V
Under-Voltage Disconnect	185V	185V	185V
Under-Voltage Reconnect	190V	190V	190V
Mains Spike Response Time	<10ns	<10ns	<10ns
Mains Spike Discharge Amps	6.5kA	6.5kA	6.5kA
Spike Protection	160J	160J	160J
Wait Time	10 Seconds to 10 Minutes	10 Seconds to 10 Minutes	10 Seconds to 10 Minutes
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0
Applications	All electrical and electronic appliances		
Offer Protection Function for Home Appliances	 High Voltage  Low Voltage  Spikes/ Surges  Power-Back Surges  Basic Lightning		



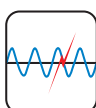
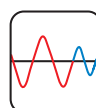

Connection Diagram:



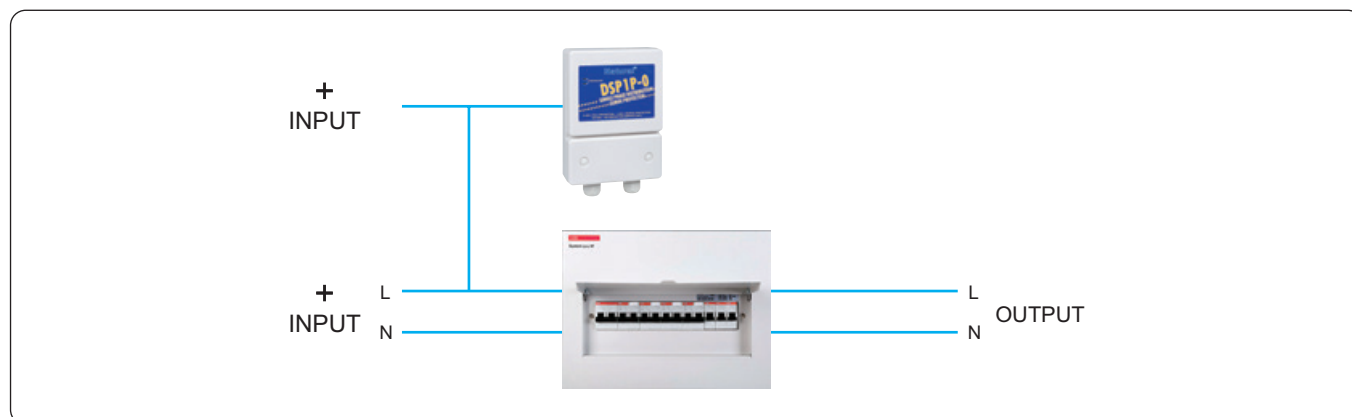
The electrical and electronic equipment in your building is more threatened than ever by increasing power problems. The most damaging of these problems are spikes, surges and sage (which includes lightning).

Connected at the point of entry distribution panel, the DSP provides a barrier at the entry level into the house, office or factory, protecting all electrical and electronic equipment against surges, spikes and transients conducted through the power distribution boards.

Technical Data

Model	DSP1P-0	DSP3P-0
		
Phase	Single Phase	Three Phases
Maximum Let Through Voltage	750V (8/20ms)	750V (8/20ms)
Response Time	<10ns	<10ns
Peak Discharge Current	20kA	20kA
Nominal Voltage (DSP1P-0)	220/240V	220/240V
Nominal Voltage (DSP3P-0)	380/415V	380/415V
Total Energy (DSP1)	1280J	1280J
Total Energy (DSP3)	2560J	2560J
Terminations (Brass terminals)	6mm ²	6mm ²
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0
Dimensions (L×W×H)	200×130×60mm	200×130×60mm
Weight	560gms	680gms
Applications	All electrical and electronic appliances	
Offer Protection Function for Home Appliances:	 Spikes/Surges  Power-Back Surges  Basic Lightning	


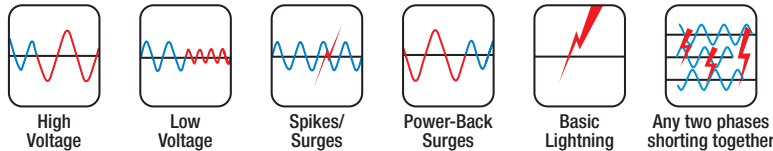
Connection Diagram:



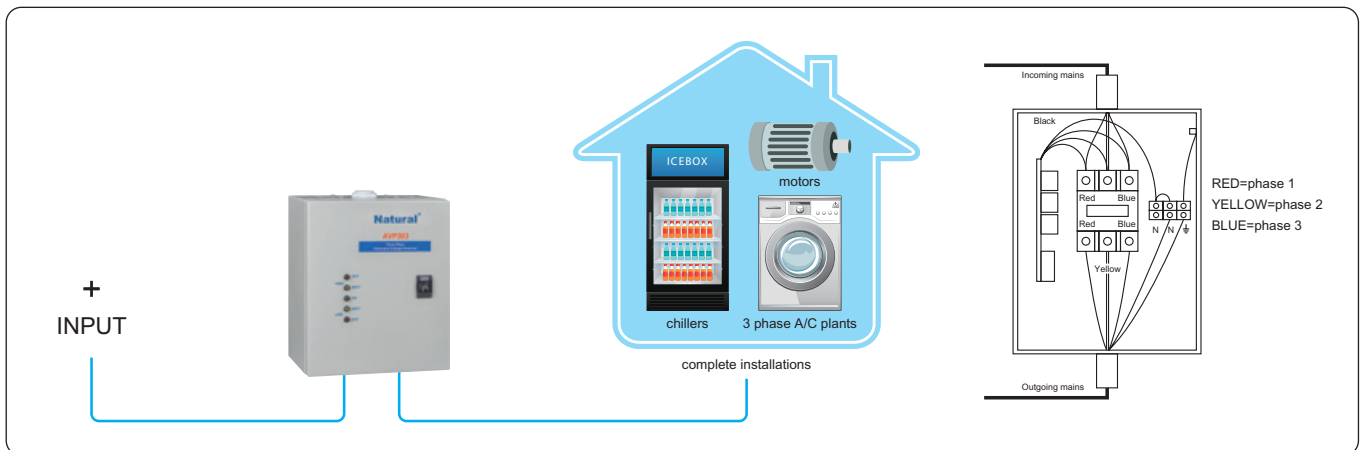
The AVP303 is a Three Phase Automatic Voltage Protector which protects against over voltage and under voltage on any one of the three phases as well as loss of one or more phases. Indication and or disconnection as a result of mains frequency error of phase sequence error is available as an option.

The AVP303 incorporates a contactor to switch the full load current. The AVP303-xx is available in different sizes ranging from 23Amps to 500Amps (the -xx relates to the model number, ie: AVP303-23 is a 23Amps 3 phase AVP303).

Technical Data

Model	AVP303
	
Current	23 to 250Amps
Nominal Voltage	230/400V
Wait Time	10 Seconds to 10 Minutes (Factory Set: 4 Minutes)
Under-Voltage Disconnect	180V (150-230V)
Over-Voltage Disconnect	260V (150-230V, also off)
Hysteresis	4V
Socket Type	Direct via brass screw terminal
Fused Plug	N/A
RFI Protection	No
Transient Suppression	Yes >6.5kA
Spike Protection	160J
Material	Metal Body
Applications	All electrical and electronic appliances
Offer Protection Function for Home Appliances:	




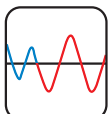
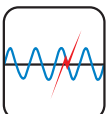
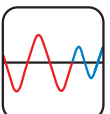

Connection Diagram:



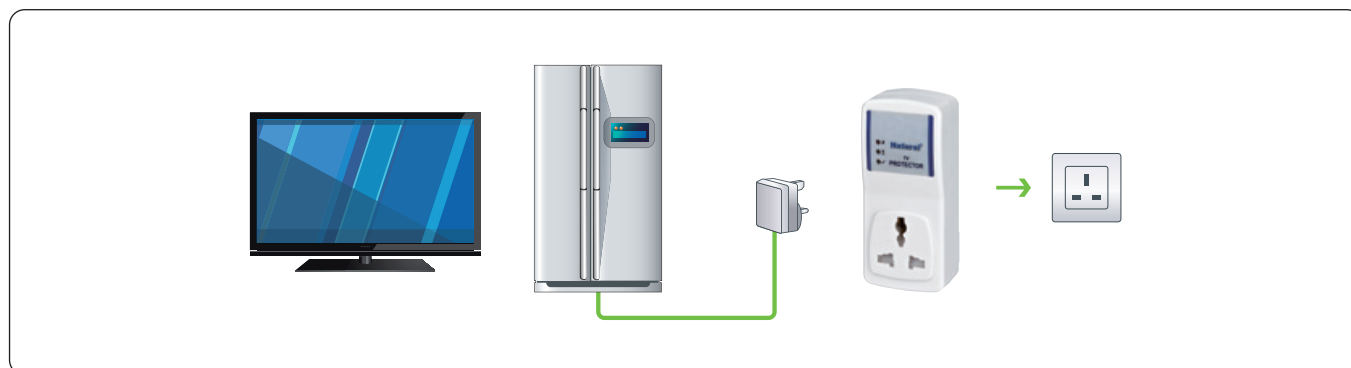
Protects against low voltage, brown-outs and voltage dips. These conditions are harmful to fridges, freezers, pumps and all motor equipments.

By disconnecting the power when it is bad, the Fridge Protector safeguards short term and long term damage to ensure higher efficiency from your appliances. 90 seconds start-up delay is built-in to protect against frequent fluctuations to ensure proper compressor shutdown and start-up.

Technical Data

Model	TV Guard	Fridge Guard
		
Socket/Plug	Multi Socket, UK Plug	Multi Socket, UK Plug
Nominal Voltage	230V	230V
Current Rating	7A/10A/13A	7A/10A/13A
Frequency	50/60Hz	50/60Hz
Low Disconnect	/	180VAC
Low Reconnect	/	185VAC
High Disconnect	260VAC	/
High Reconnect	255VAC	/
Response Time	<10ns	<10ns
Discharge Amps	6.5kA	6.5kA
Spike Protection	160J	160J
Wait Time	30 seconds	60 seconds
Voltage Protection for Offer Protection Function for Home Appliances	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps, 1HP or 1.5HP Air Conditioners, TV, DVD, HIFI, Media Centers, Fax.	
	 High Voltage  Spikes/ Surges  Power-Back Surges  Basic Lightning	




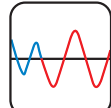
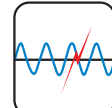
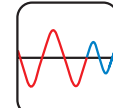

Connection Diagram:



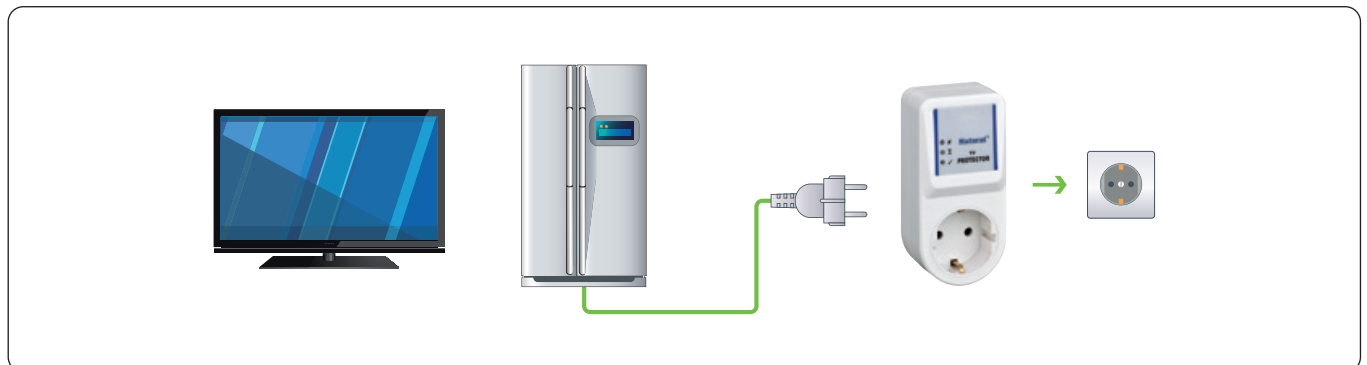
Protects against low voltage, brown-outs and voltage dips. These conditions are harmful to fridges, freezers, pumps and all motor equipments.

By disconnecting the power when it is bad, the Fridge Protector safeguards short term and long term damage to ensure higher efficiency from your appliances. 90 seconds start-up delay is built-in to protect against frequent fluctuations to ensure proper compressor shutdown and start-up.

Technical Data

Model	TV Guard	Fridge Guard
		
Socket/Plug	EU Socket, EU Plug	EU Socket, EU Plug
Nominal Voltage	230V	230V
Current Rating	7A/10A/13A/15A/16A	7A/10A/13A/15A/16A
Frequency	50/60Hz	50/60Hz
Low Disconnect	/	180VAC
Low Reconnect	/	185VAC
High Disconnect	260VAC	/
High Reconnect	255VAC	/
Response Time	<10ns	<10ns
Discharge Amps	6.5kA	6.5kA
Spike Protection	160J	160J
Wait Time	30 seconds	60 seconds
Voltage Protection for Offer Protection Function for Home Appliances	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps, 1HP or 1.5HP Air Conditioners, TV, DVD, HIFI, Media Centers, Fax.	
	 High Voltage  Spikes/ Surges  Power-Back Surges  Basic Lightning	

















Connection Diagram:



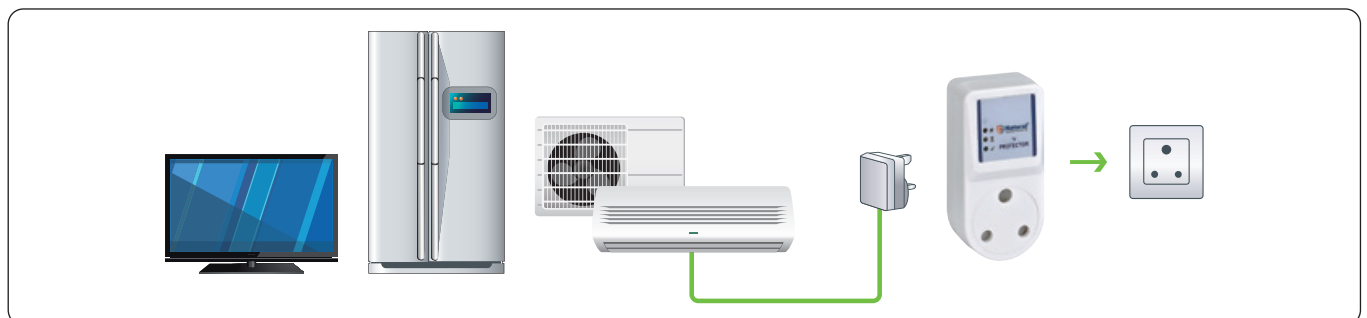
Protects against low voltage, brown-outs and voltage dips. These conditions are harmful to fridges, freezers, pumps and all motor equipments.

By disconnecting the power when it is bad, the Fridge Protector safeguards short term and long term damage to ensure higher efficiency from your appliances. 90 seconds start-up delay is built-in to protect against frequent fluctuations to ensure proper compressor shutdown and start-up.

Technical Data

Model	TV Protector	Fridge Protector	Volt Protector
			
Socket/Plug	South Africa Socket, South Africa Plug	South Africa Socket, South Africa Plug	South Africa Socket, South Africa Plug
Nominal Voltage	230V	230V	230V
Current Rating	7A/10A/13A/15A	7A/10A/13A/15A	7A/10A/13A/15A
Frequency	50/60Hz	50/60Hz	50/60Hz
Low Disconnect	/	180VAC	180VAC
Low Reconnect	/	185VAC	185VAC
High Disconnect	260VAC	/	260VAC
High Reconnect	255VAC	/	255VAC
Response Time	<10ns	<10ns	<10ns
Discharge Amps	6.5kA	6.5kA	6.5kA
Spike Protection	160J	160J	160J
Wait Time	30 seconds	90 seconds	90 seconds
Material	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0	PC Fireproof UL 94 V-0
Voltage Protection for	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps, 1HP or 1.5HP Air Conditioners, TV, DVD, HIFI, Media Centers, Fax.		
Offer Protection Function for Home Appliances	 Low Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning	 High Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning	 High Voltage  Low Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning



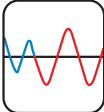
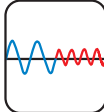
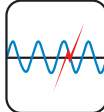
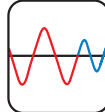

Connection Diagram:



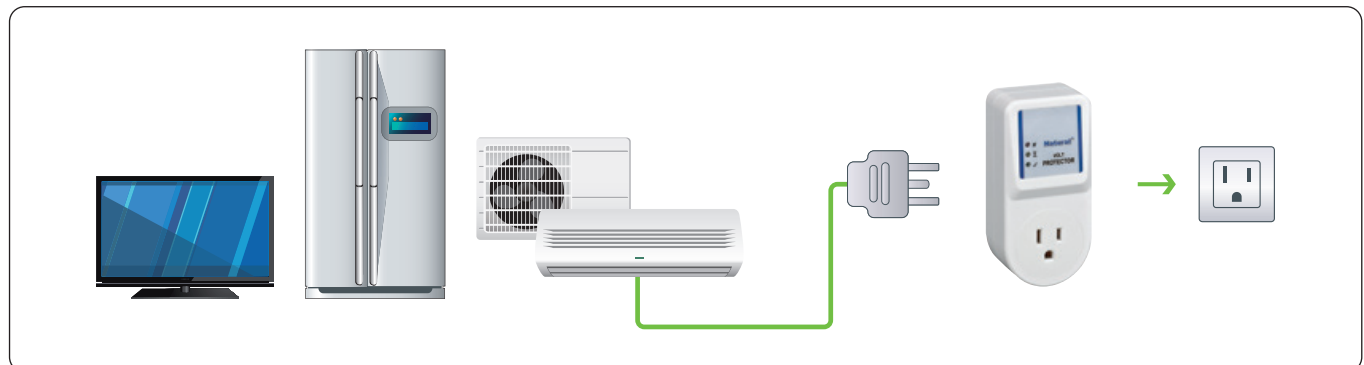
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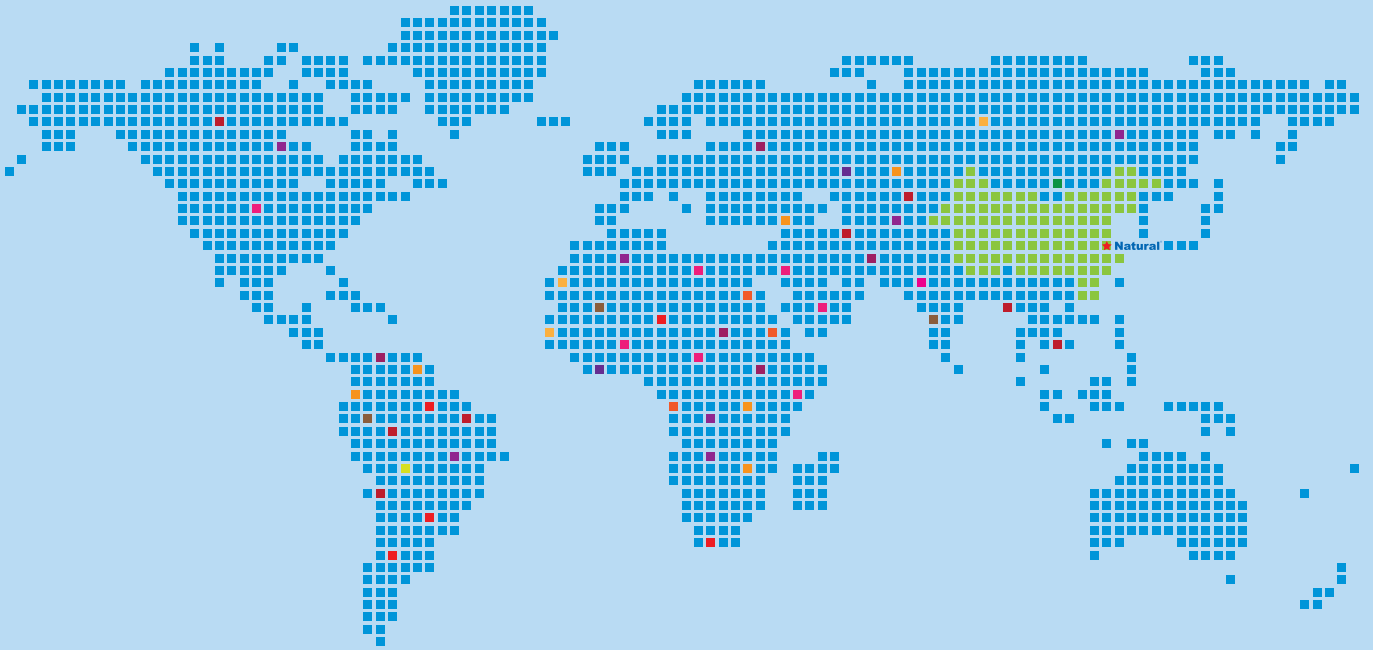
By disconnecting the power when it is bad, the Fridge Protector safeguards short term and long term damage to ensure higher efficiency from your appliances. 90 seconds start-up delay is built-in to protect against frequent fluctuations to ensure proper compressor shutdown and start-up.

Technical Data

Model	Volt Protector NVP-US230	Volt Protector NVP-US110
		
Socket/Plug	US Socket, US Plug	US Socket, US Plug
Nominal Voltage	230V	110V
Current Rating	10A/13A/15A/16A	10A/13A/15A/16A
Frequency	50/60Hz	50/60Hz
Low Disconnect	180VAC	90VAC
Low Reconnect	185VAC	93VAC
High Disconnect	260VAC	135VAC
High Reconnect	255VAC	132VAC
Response Time	<10ns	<10ns
Discharge Amps	6.5kA	6.5kA
Spike Protection	160J	160J
Wait Time	30 seconds	30 seconds
Voltage Protection for Offer Protection Function for Home Appliances	Fridges, Freezers, Coolers, Washing Machines, Motor equipment, Pumps, 1HP or 1.5HP Air Conditioners, TV, DVD, HIFI, Media Centers, Fax.	
	 High Voltage  Low Voltage  Spikes/Surges  Power-Back Surges  Basic Lightning	

Connection Diagram:





Protection for all electrical and electronic equipment



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