

AVS3P-0

THREE PHASE AUTOMATIC VOLTAGE SWITCHER PROVIDING OVER AND UNDER VOLTAGE PROTECTION

DESCRIPTION

The AVS3P-0 is a three phase Automatic Voltage Switcher that controls an external three phase controller or contactor of any size. The AVS3P-0 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 (adjustable from 10 secs to 10 mins) 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.

FUNCTION

The AVS3P-0 protects from over voltage and under voltage on any one of the three phases as well as loss of one or more phases. The AVS3P-0 can also be set to protect against bad frequency (goes outside the operating range), phase imbalance (voltage deviation) and/or phase rotation (phases are swapped post-commissioning).

The AVS3P-0 is designed to operate an external control circuit contactor solenoid or other equipment. The AVS3P-0 will open the contact if it detects a voltage problem.

APPLICATIONS

- Three phase air conditioners
- Industrial refrigeration
- Three phase pumps
- Three phase motors and industrial plants and machinery

TIPS

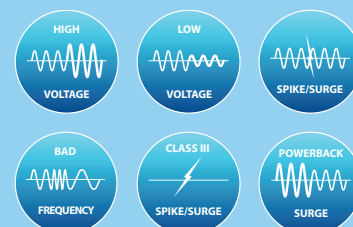
The AVS3P-0 has a changeover relay output providing normally open and closed contacts rated at 16 amps that can be used to drive external alarms contactors and loads. Direct wiring adds security of installation.



FEATURES



PROTECTION AGAINST



PROTECTION FOR



TECHNICAL SPECIFICATION

GENERAL		
Model	115 V	240 V
Current	16 A @ 115 V	16 A @ 230 V
Nominal Voltage	115 / 127 V	230 / 240 V
Wait Time	OFF, 30 secs to 10 min	
Window Limits	Adjustable	Adjustable
Hysteresis (Reconnection Voltage)	2 V	4 V
Socket Type	Direct via brass screw terminal	
Fused Plug	Designed for fixed wiring with appropriate upstream fuse	
Transient Suppression	Yes	Yes
Spike Protection	80 J @ 115 V	160 J @ 230 V
Max Operating Voltage (Uc)	160 V	320 V
Environmental Protection	IP30	
Packing Details	Carton QTY	48
	Pallet QTY	480
Weight	500g	

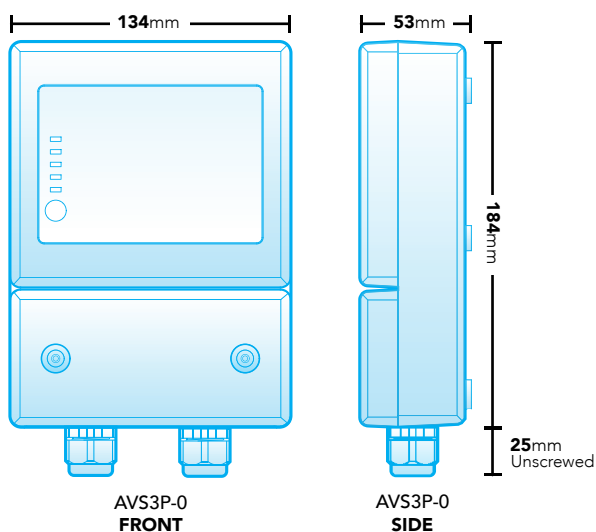
TIMESAVE™ DESCRIPTION

The AVS3P-0 has a built-in microprocessor which adds the advanced feature TimeSave™. This means that when the mains returns to normal, the AVS3P-0 checks the duration of the OFF time. If the unit has been off for more than 3 minutes (recommended user set Delay time) then it will reconnect the mains within 30 seconds rather than the standard 3 minutes. This means the Sollatek AVS3P-0 will give you more vital working time than any other switcher.

THE VOLTSHIELD FEATURES

- Protects and prolongs the useful life of electrical appliances
- Eliminates the need to switch off appliances everytime the electricity fails
- Safeguards valuable electrical appliances at all times
- Very low cost protection in relation to the value of appliances
- Different models available

DIMENSIONAL DRAWING



i The diagrams presented are for illustrative purposes only. Detailed drawings are available upon request.

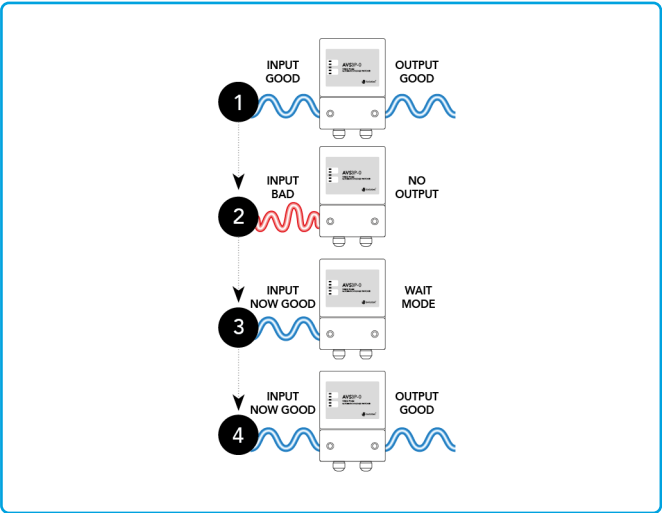


LED FUNCTIONS

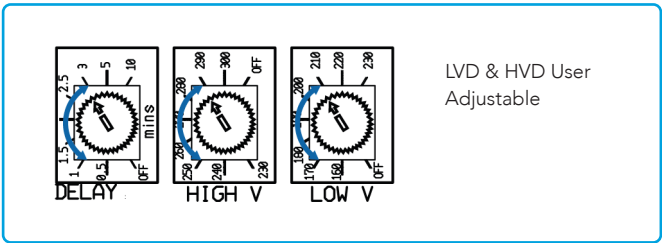
Five LEDs accurately display the status of the AVS in the following traffic light design:

LED INDICATIONS	INDICATING	LOAD STATUS
✗ Red	High incoming voltage	OFF
⌚ Yellow	AVS is in wait state after a high voltage transition	OFF
✓ Green	Mains normal o/p on	ON
⌚ Yellow	AVS is in wait state after a low voltage transition	OFF
✗ Red	Low incoming voltage	OFF

PRINCIPLE DIAGRAM



CHANGE SETTINGS



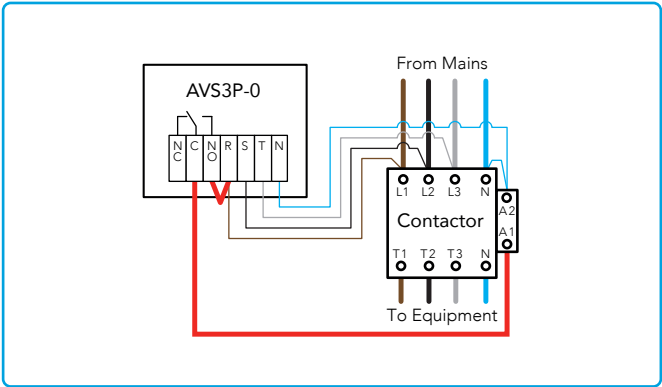
WIRING

1) Insert the wires through the gland nut and the glands.

2) Connect the corresponding wires to the AVS3P terminals.

3) Tighten the cable gland nuts and secure the terminal cover in place.

ELECTRICAL CONNECTIONS



Stock No	Description
95600000	AVS3P-0

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