

Installation Instructions

MODEL NUMBERS:

Surgetronics 120-2S-M3-2(3)-XX-A(B)	Surgetronics 240-2S-M3-3-XX-B
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BEFORE INSTALLING - MAKE CERTAIN THE SYSTEM VOLTAGE AND CONFIGURATION ON THE NAMEPLATE IS APPROPRIATE FOR YOUR FACILITY ELECTRICAL SERVICE

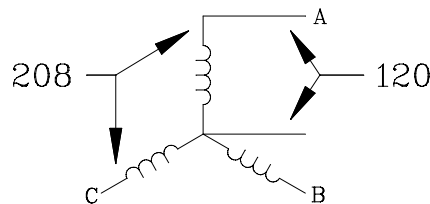
Cautions and Warnings

1. Serious injury or death may occur if this product is not installed correctly.
2. The unit should only be installed by Qualified Personnel.
3. Installation and wiring should conform to the National Electrical Code of the USA or appropriate local codes
4. The maximum size conductors are to be No. 2 AWG.
5. The maximum Service or Feeder Rating is 100 amperes.
6. Disconnect from energized circuits before installing or servicing.
7. MAKE CERTAIN THE SYSTEM VOLTAGE AND CONFIGURATION ON THE NAMEPLATE IS APPROPRIATE FOR YOUR FACILITY ELECTRICAL SERVICE

General Product Information and Specifications

Surgetronics 120-2S-M3-2(3)-xx-A(B)

Nominal Voltage: 208Y/120 or 120/240 Split Phase (See Nameplate)



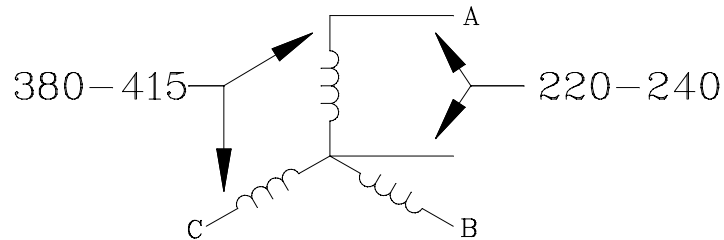
Suitable For Use on a Circuit Capable of Delivering Not More Than 100,000 rms symmetrical Amperes, 150 volts maximum (Phase to Neutral), When protected by a Listed Class J, Class R, or Class T fuse or circuit breaker rated at 100 amperes or less.

Suppressed Voltage Rating per UL1449 2 nd .	Surgetronics 120-2S-M3-2(3)-xx-A	500V.
	Surgetronics 120-2S-M3-2(3)-xx-B	800V.

Maximum Operating Surge Current: 100 kA (8/20µS) measured according to NEMA LS1
 Operating Temperature: -20° Celsius to 70° Celsius

Surgetronics 240-2S-M3-2(3)-00-B

Nominal Voltage: 415Y/240 380Y/220 3 WIRE w/GND (L1-L2-N + G) (See Nameplate)



Suitable For Use on a Circuit Capable of Delivering Not More Than 100,000 rms symmetrical Amperes, 280 volts maximum (Phase to Neutral), When protected by a Listed Class J, Class R, or Class T fuse or circuit breaker rated at 100 amperes or less.

Suppressed Voltage Rating per UL1449 Second Edition: 800 volts

Maximum Operating Surge Current: 100 kA (8/20 μ S) measured according to NEMA LS1

Operating Temperature: -20° Celsius to 70° Celsius

Mounting

The TVSS needs to be mounted to a solid, flat vertical surface capable of supporting 35 pounds. The Surgetronics TVSS unit should be secured by the mounting flanges using appropriate hardware.

Note: Do not use the mounting lugs to make the safety and protection ground.

Grounding

Ground connection is made to the ground stud mounted on the inside of the cabinet. The connection should be made by a short cable to the power ground or, in some installations, to the main ground bar at the installation location.

Connecting Cables

Installation and working practices should conform to the National Electrical Code of the USA or appropriate Local electrical codes.

Wiring for In-Line Connection (see Fig. 1)

In this connection type, the protected load or protected subpanel is fed directly from the TVSS. The overcurrent protector and conductors, which feed the TVSS, must be sized appropriately to accommodate the load currents and lightning surges. Any disconnecter used should be capable of disconnecting normal load current as well as handling lightning surge currents.

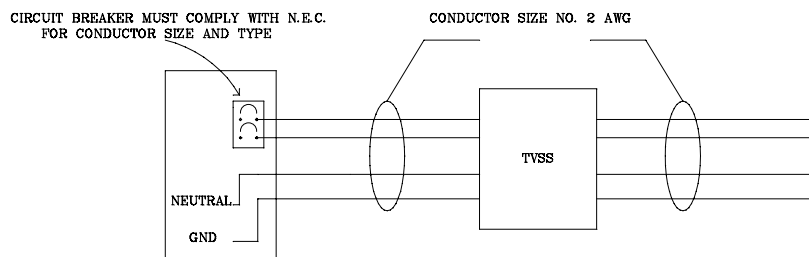
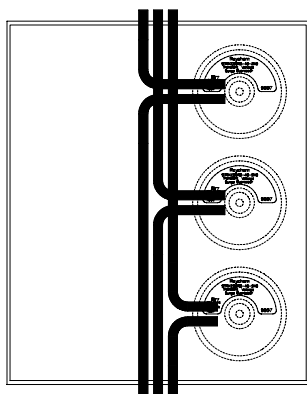


Fig. 1

