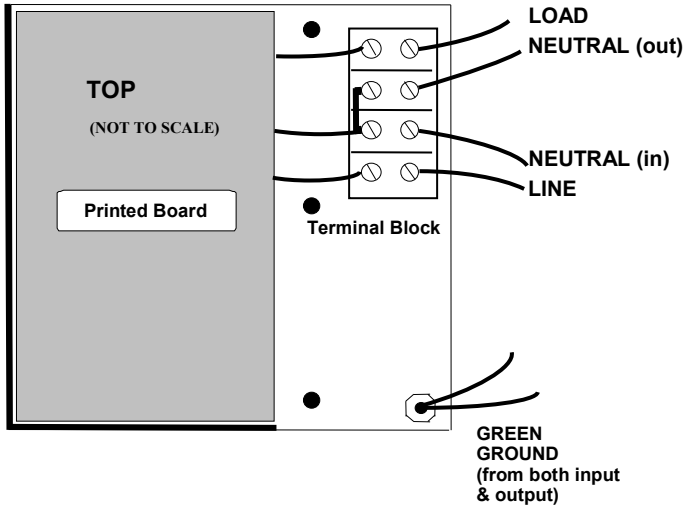
Wiring Diagram for OEM6 Series Modules.
Purchaser is responsible for ensuring module is installed in accordance with all applicable safety certification and electrical code standards.
This unit is designed for incorporation as a filter component in another product.

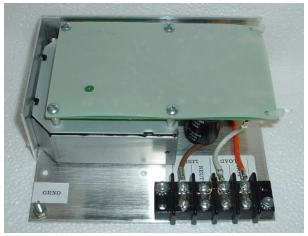


- A ground wire terminal lug and green chromate hex nut is provided for equipment grounding.
- The neutral connections on the terminal block are connected together. The neutral is common to both the input power and load power.
- Incoming “Hot” line is to be connected to the terminal labeled “Line Hot” next to the terminal block.
- The outgoing “load” line is connected to the “Load Hot” terminal labeled “Out” on the terminal block.

The end product enclosure shall ensure protection from exposure to wet conditions.

ZeroSurge®
Power Quality Filters

OEM6 WVR Series



Models:

OEM6-20W-120
OEM6-20W-240E

Operating Instructions

Models:

OEM6 WVR 120V Series - 20 Amp Single Phase
OEM6-20W-120 (#003-00326)

OEM6 WVR 240V Series - 20 Amp Single Phase
OEM6-20W-240E (#003-00318)

Both 120V and 240V OEM6 models are 20 Amp continuous duty configurations.

For US 120V single phase (one hot leg, with neutral leg, 120V between hot and neutral legs), **OEM6 WVR 120V** series models may be used. Wire as shown on rear of this manual.

For European 240V (one leg hot, with neutral leg, 240V between hot and neutral legs), **OEM6 WVR 240V** series models must be used. Wire as shown on rear of manual.

Wiring:

- Use a minimum #12 AWG copper wire rated for 600V or greater. Check local electric codes to ensure this standard is applicable in your area.
- Please refer to the wiring diagram on the back cover of this manual.
- Pressure terminal or pressure splicing connectors and soldering lugs used in the installation of the filter shall be identified as being suitable for end product connections to #14 AWG stranded copper wire of Reactor Coil.
- Incoming "Hot" line is connected to Brown wire of Reactor Coil.
- Neutral incoming and load are connected together and are connected to terminal T-2 of the circuit board.
- Outgoing "Load" line is connected to orange wire of Reactor Coil. T-tap connector in the middle of the orange wire is connected to terminal T-1 of the Circuit Board.
- There is no ground connection to the Reactor Coil or Circuit Board as it is not used in filtering the power line. Proper grounding of devices incorporating this filter is required as described in NEC and in the USA or applicable international codes and UL-1283.
- Spacing of primary circuits must maintain 1.6mm minimum between current carrying parts of opposite polarity.

Within the US, all units should be installed in conformity with the National Electric Code and any other applicable local codes. All international installations should be made in conformance with any applicable national or local codes for that region.

Technical Specifications:

Operating Voltage Range: 85-175 VAC
Maximum Continuous Operating Voltage (MCOV) = 175 VAC
Operating Temperature Range:
120V model: -25° to 60° C / -13° to 140° F
240V model: 0° to 40° C /32° to 104° F.
Filter Technology: Spectrum WVR Wide Voltage Range
Safety Certifications:
CSA 22.2 No. 8, UL 1283. ETL File #3162119.
Operating Mode: Mode 1 applications, L-N
Limiters:
Inductor surge current limiter, auto-tracking dual polarity voltage filters. Parameters optimized for switch-mode power supply protection.
Supplemental Filtering Onset:
172 volts nominal, 2 volts above peak line voltage (auto-tracking-WVR).
Max. Surge Voltage Let-through*:
100 volts above peak line voltage @ 6,000 volts, 3,000 amps for ANSI C62.41 Category B3/C1 Combination Wave surge.
Endurance Rating:
1,000 worst-case surges: ANSI C62.41, Category B3/C1 pulses (6,000 V, 3,000 A); >10,000 surges at 4,000 V, > 100,000 surges at 2,000 V.

** Note: Surge Voltage Let-through is the surge voltage that exceeds the powerline peak voltage.*

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