



# Tier 200ACF Series

## Terminal Block AC Surge Filter



The Southern Tier Technologies Terminal Block AC Surge Filter features a design platform based on a unique multi-stage hybrid design. The coordinated surge and noise mitigation array makes it possible for the Tier 200 AC Filter to attenuate disruptive impulses that would normally go untouched by standard clamping devices. Its high-energy capability makes this an ideal product to protect sensitive equipment in the harshest environments.

### Key Specs:

- **Operating Voltage:** 120 or 240VAC
- **Operating Current:** 5, 10, 15, 20, 30 Amps
- **EMI Attenuation**
- **Surge Capacity:** 50kA/mode, 100kA/Phase
- **Connection:** Series; Terminal Block

### Features:

- **Multi-stage hybrid design;** Inductor, Capacitor, Thermally Protected MOV
- **LED Status Indication:** Monitors all protected modes
- **5 year warranty**

### Why Install AC Surge Filters?

High frequency noise and ringing transients generated by lightning, utility switching or an internal operation, can significantly impact your sensitive equipment. These power anomalies can easily disrupt your critical processes, or degrade and damage sensitive microprocessor driven equipment.

*Innovative Solutions for Clean, Reliable Power*



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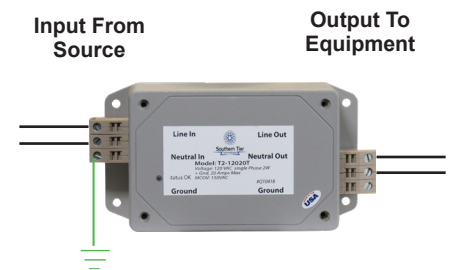
## Terminal Block AC Surge Filter

Low-energy transients and high-frequency noise events are responsible for both disruption and long-term degradation of sensitive microprocessor driven equipment. A complete power protection strategy should include installation of a high frequency noise/surge filter at the input of your most critical equipment as well as at the output of known disruptive devices.

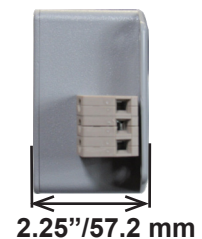
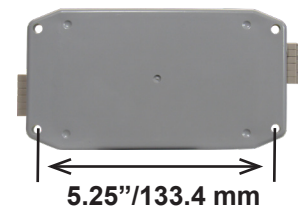
### General Technical Specifications

Operating Voltage	120 & 240VAC
Maximum Operating Current	5A, 10A, 15A, 20A & 30A
Maximum Continuous Operating Voltage (MCOV)	120V, 150 VAC; 125% 240V, 320 VAC; 115%
Peak Surge Current Rating	50 kA/Mode, 100 kA/Phase
Connection Type	Series, Input/Output; 18-10AWG Terminal Connections
Clamping Voltage	340 VAC
Operating Frequency Range	47 - 63 Hz
EMI Attenuation	Up to 60 dB typical
Protection Modes	All Connected Modes: L-N, L-G, N-G
Technology	Hybrid technology featuring thermally protected MOVs, Inductors and Capacitors
Standards: <b>Designed and tested to:</b>	UL 1449 4th Edition Recognized SPD, Type 2 Component Assembly, CSA 22.2, UL 1283 Rec. Filter
Status Indication	Green LED
Dimensions (in/mm)	1.875"(H) x 3.25" (W) x 5.75" (L) (47.6 x 82.6 x 146.1 mm)
Weight (lb/kg)	12 oz (.34 kg)
Operating Temperature	-40°C to +85°C
Operating Humidity	0% to 95% non-condensing
Warranty	5 Years

### Wiring Connections



### Mounting



### STT Tier 200 Ordering Information - Example Model Number: T2F12030T

Product Series	Voltage (Single Ph)	Load Capacity	Connection
Tier 200 Filter = <b>T2F</b>	120V - <b>120</b> 240V - <b>240</b>	5 Amps - <b>05</b> ; 10 Amps - <b>10</b> ; 15 Amps - <b>15</b> 20 Amps - <b>20</b> ; 30 Amps - <b>30</b>	Lug - <b>L</b> ; Terminal - <b>T</b> ; Wire - <b>W</b> Outlet/Receptacle - See Outlet/Receptacle Sheet