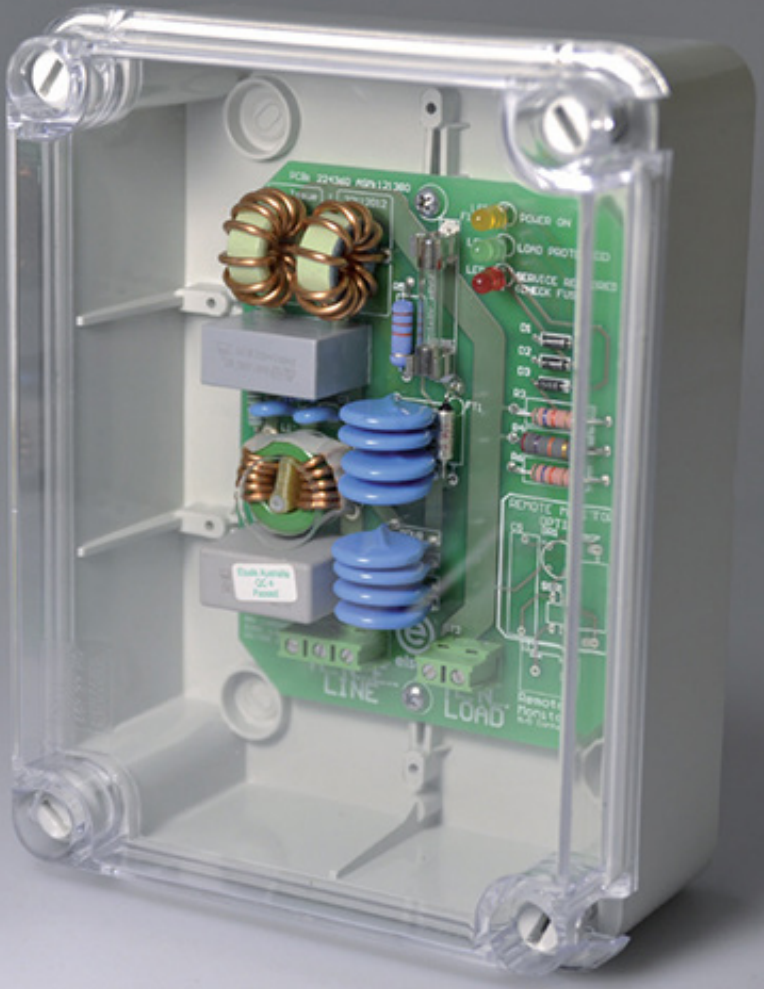


121380 - Single Phase Surge Protection Filter



The **121380** - is a hard wired 20A surge protection filter which provides protection against voltage transients, low and high frequency noise and assists with the reduction of harmonics generated by electronic equipment.

Power Circuits

The first stage of the **121380** contains a 4th order LC filter with additional Y capacitors which creates an effective common and differential mode filter. This filter reduces noise and unwanted harmonics to protect sensitive electrical systems. Metal Oxide Varistors (MOVs) are placed directly across the load side of the filter network to arrest any transients over $275V_{rms}$. MOVs dissipate the excess voltage spikes as heat and are connected between Active / Neutral, Active / Earth and Neutral / Earth, for full protection. The input circuit incorporates specially designed common and differential mode toroidal chokes that absorb a large proportion of the incoming transient. These inductor chokes are very robust and reduce the strain usually placed on MOVs resulting in lower let through voltages to the load. The MOVs are protected by a replaceable fuse, and a non-replaceable thermal fuse, should the incoming surge be greater than the rated capacity of the MOVs.

Status Indicators

LED indicators are fitted to give a visual status alert to the user. In the event of a very large surge or lightning strike nearby, the fuse will disconnect the active from the surge protection network, the green LED will then turn off and the red LED will turn on.

Amber	ON	Power Connected
	OFF	Power is OFF
Green	ON	Protection OK
	OFF	Protection circuit fault (service required - check fuse).
Red	ON	Protection circuit fault (service required - check fuse).
	OFF	Protection OK

If after replacing the fuse (disconnect all power before doing so) the LEDs do not return to the "Protection OK" state, this means that the thermal fuse has activated. The product must then be replaced.

A remote status monitoring facility is available as an optional extra.

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Specifications

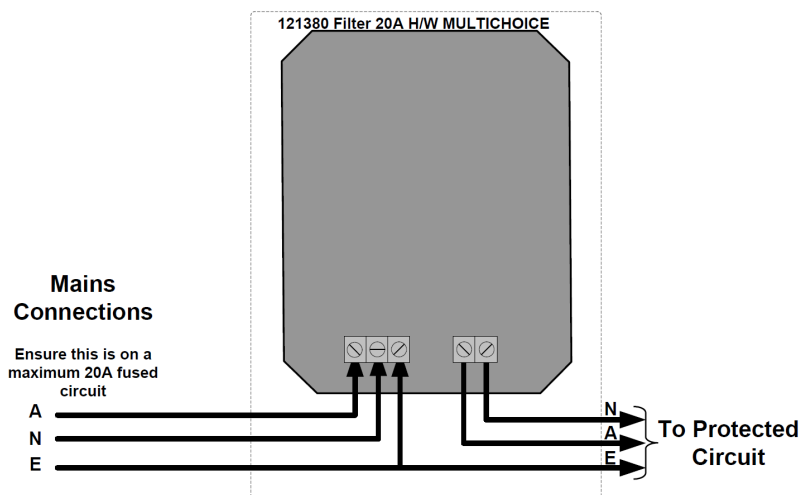
Voltage Range	220 ~ 260V _{rms} (AC 50 - 60 Hz)
Maximum Current	20A
Operating Temperature	-15 / +60°C
Humidity	90%
Clamping Voltage	275 V _{RMS}
Active / Neutral	4 x 10 kA Metal Oxide Varistors (8/20µS Waveform)
Active / Earth	2 x 10 kA Metal Oxide Varistors (8/20µS Waveform)
Neutral / Earth	2 x 10 kA Metal Oxide Varistors (8/20µS Waveform)
Response Time	<5n Sec

Filter System	4th order LC filter for common and differential mode noise, transient, and harmonics suppression.
Earth Leakage	4.7nF from Active to Earth and Neutral to Earth
Status/Indication	Red, Green & Amber LEDs ... See description details

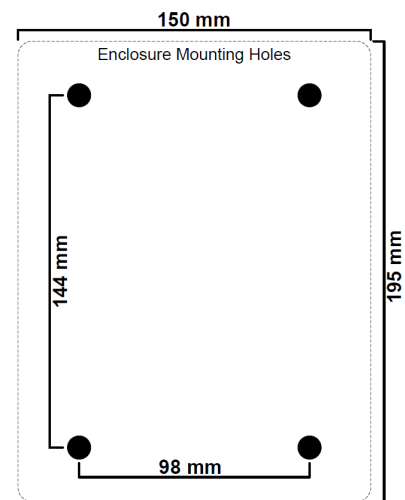
Power Outlet	Standard 20A terminal block
Enclosure Dimensions	195 x 150 x 80mm (approx)
Colour	Grey base, clear top
Remote Monitoring	Dry contact N/C > 50 AC / DC (optional extra)
Terminal Specifications	Solid Wire: 0.2 - 4.0 mm ² Stranded Wire: 0.2 - 2.5 mm ²

OE Elsafe Australia has a policy of continuous development and we reserve the right to change specifications without notice.
All dimensions given in this specification are nominal and are for reference purposes only.

Wiring Diagram



Mounting Diagram



Terminal Specifications:

Solid Wire: 0.2 - 4.0mm²
Stranded Wire: 0.2 - 2.5mm²

Note: Mounting Holes, Wire Entry & Exit Holes are not predrilled.
No cable restraint supplied