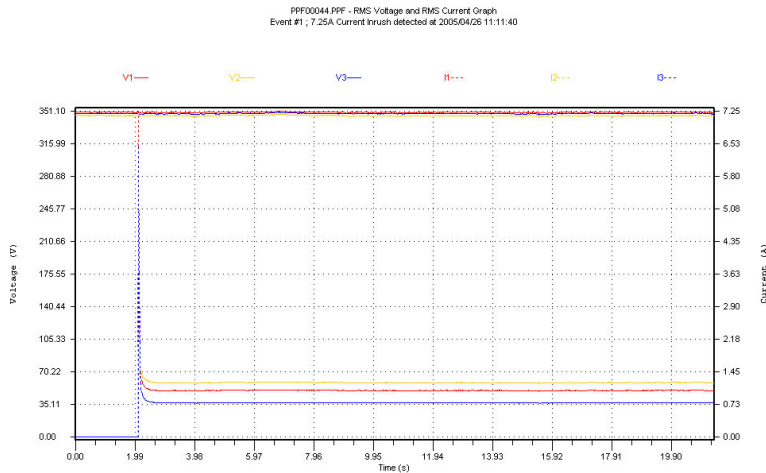


Current Inrush

The PowerPro will capture 20 seconds of cycle by cycle voltage and current RMS data and five cycles of waveform data. This is triggered by any of the monitored currents exceeding a set threshold. The RMS data includes 2 seconds before the trigger point and 18 seconds after. The waveform data includes 2 cycles before the trigger point and 3 cycles after. Figure 1 shows the captured RMS data for a transformer energization, Figure 2 is zoomed in on the inrush and Figure 3 shows the captured waveform data.

Figure 2 shows that the transformer energization is over in less than 0.2 seconds or 12 cycles. Note that in the current inrush waveform the peak of the Ch1 current was beyond the range of the 10A clamp used and is clipped.



◀ Fig. 1 - RMS Voltage and Current during current inrush

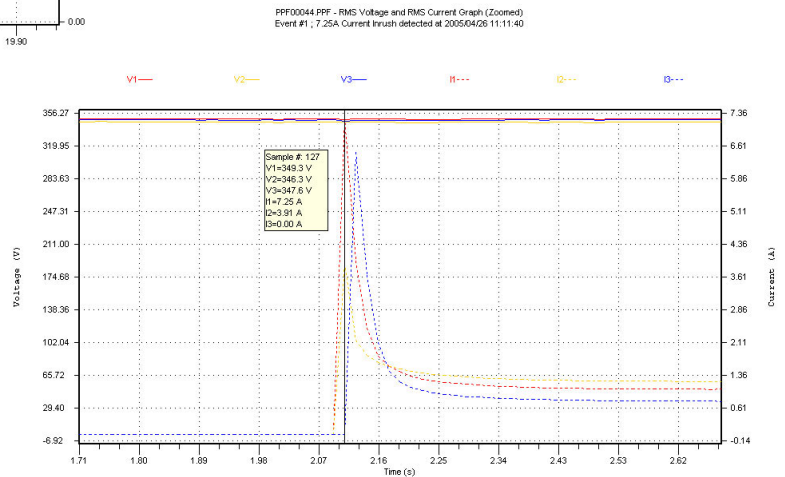
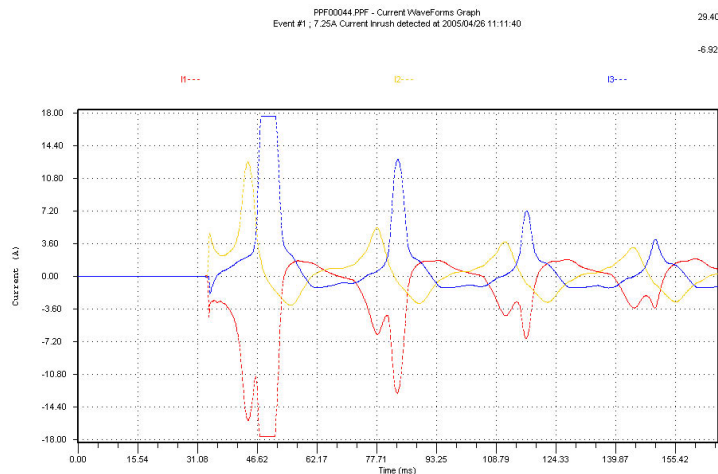


Fig. 2 - Zoomed RMS Voltage and Current ▶



◀ Fig. 3 - Current Inrush Waveforms

