

# Inrush Current Limiter Selection

# 3

Measurements  
Needed

Zero Power Resistance  
Steady-State Current  
Energy Measured In Joules

Rule of Thumb:  
Always Round Up



## Zero Power Resistance ( $\Omega$ )

Peak Voltage/Max Allowable Inrush Current

$$\text{Peak Voltage} = (V_{\text{rms}})(1.414)$$

Max Allowable Inrush Current = Fuse in power supply or breaker on AC line

## Energy Measured In Joules (J)

$$\frac{1}{2}(\text{Capacitance})(\text{Peak Voltage})^2$$

Capacitance = Will come from the specifications provided by the manufacturer

$$\text{Peak Voltage} = (V_{\text{rms}})(1.414)$$

## Steady-State Current (A)

Input Power/ Input Voltage

$$(W/V = I)$$



[www.ametherm.com/  
inrush-current-limiters-full-line](http://www.ametherm.com/inrush-current-limiters-full-line)

Measurements Correlate

With Rows 4, 5, and 6

On Webpage