

## TRAFFIC CONTROL / AC SERVICE

# HE300-15 220V



### DESCRIPTION

The HE300-15 surge arrester is the first line of protection for the electronic equipment in a traffic controller cabinet.

This unit is a two-stage arrester which can be used as a stand-alone device or in conjunction with an external line filter if required. Because the primary and secondary stages are electrically separated (line side), the addition of an external filter (HESCO/RLS model LF35, LF50 or LF60) is simple and quick.

The primary stage is designed to dissipate high-energy surges on the AC powerline while clamping at a nominal 430 volts. The primary stage provides protection from line to neutral, line to ground and neutral to ground. This feature becomes quite important at site locations where neutral must be kept isolated from earth ground inside the controller cabinet.

In addition to the primary stage's capability to sustain multiple surges of 46KA (8x20uS), the secondary stage is designed to sustain surges in excess of 20KA (8x20uS) at a maximum clamp voltage of 710 volts.

The HE300-15 surge arrester is one of the most powerful hybrid surge arrestors available today.

### SPECIFICATIONS

<b>Peak Surge Current (8x20us)</b>	
<b>First Stage</b> .....	<b>46KA</b>
<b>Second Stage</b> .....	<b>20KA</b>
<b>Overall Occurrences:</b>	
<b>46KA (8x20uS)</b> .....	<b>10 Times</b>
<b>33KA (8x20uS)</b> .....	<b>20 Times</b>
<b>20KA (8x20uS)</b> .....	<b>40 Times</b>
<b>The voltage never exceeds 710 VDC during a surge of 20KA (8x20uS) or less.</b>	
<b>Maximum Continuous Operating Voltage</b> .....	<b>275VAC</b>
<b>Continuous Service Current</b> .....	<b>15 Amps Max 220 VAC, 50-60 Hz</b>
<b>Clamp Voltage</b> .....	<b>430VDC</b>
<b>Response Time</b> .....	<b>&lt;5 Ns</b>
<b>Series Inductance</b> .....	<b>.235uH Total</b>
<b>Dimensions</b> .....	<b>2.875"W x 5.30"L x 1.70"H</b>
<b>Temperature Range</b> .....	<b>-40°C to +85°C</b>
<b>Weight</b> .....	<b>1.6 LB</b>

\*Unit was tested with neutral strapped to the ground terminal.

**HESCO/RLS**  
220 Springview Commerce Drive  
Unit #190  
DeBary, FL 32713  
Fax 386.668.2793

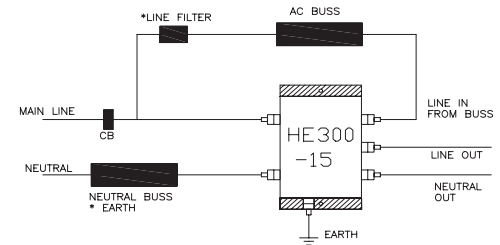
For more information and product support call us at...

1-800-547-4868

### FEATURES

- Multi-Stage Surge Arrester
- Protects Against Lightning and Other Power Surges
- Clamps Harmful Surges Quickly
- Completely Weatherproof
- Immediately Self-Restores After Each Surge
- Filter Component Meets MIL-STD-220A Insertion Loss Specifications

### MOUNTING



\*OPTIONAL

### MIL-STD-220A INSERTION LOSS (dB)

Frequency	Insertion Loss (dB)
60Hz.....	0
10Khz.....	7
50Khz.....	53
100Khz.....	69
500Khz.....	70
2MHz.....	70
5MHz.....	70
10MHz.....	50
20MHz.....	57