

TRAFFIC CONTROL / AC SERVICE

HE1800R

DESCRIPTION

The HE1800R has been specifically designed for use on type 170 controllers, although it may be used on NEMA controllers. Because of the high quality of this protector, it may be used as a stand alone device without the use of an external filter. If an external line filter is required, it is recommended that a HESCO/RLS filter be used.

The HE1800R is a multi-stage, high energy suppressor that incorporates a sophisticated, inline EMI/RFI filter. The inline filter has been designed to effectively reject random noise and spikes from 10KHz to 25MHz. An inductive network separates the primary and secondary clamp stages, yet work together to offer clamp voltages of under 400 volts at 20kA (8x20us).

If random database memory loss or any other transient interference is effecting the safe operation of one or more of your intersections, the HE1800R surge protector will quickly and effectively eliminate the problem.

SPECIFICATIONS

Peak Surge Current (8x20us).....	24KA
Life Test.....	<5% change in clamp voltage after 25 surges of 25kA (8x20us)
Max Clamp Voltage.....	395 V
Continuous Service Current.....	15 Amps Max 120 VAC, 50-60 Hz
Dimensions.....	2.875"W x 5.30"L x 1.70"H
Temperature Range.....	-40°C to +85°C
Mounting.....	Plastic Base Plate
Weight.....	1.6 LB

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

Spike Test using Berkley Model 3020 Noise Generator

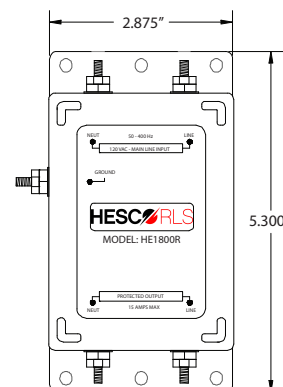
Input Spike Voltage.....	700 V P-P
Maximum Voltage Excursion Above/Below Sine Wave	
At All Phase Angles, 0 to 180°.....	+30 Volts



FEATURES

- Multi-Stage Surge Arrestor
- 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

DIMENSIONS



MIL-STD-220A INSERTION LOSS (dB)

Frequency	Insertion Loss (dB)
60Hz.....	0
10Khz.....	35
50Khz.....	71
100Khz.....	72
500Khz.....	75
2MHz.....	67
5MHz.....	57
10MHz.....	52
20MHz.....	38

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

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