



HIGH VOLTAGE
POWER SOLUTIONS, INC.

HE850
220/380VAC
3Ø, 4W

SECONDARY
SURGE
"LIGHTNING"
ARRESTER

FEATURES

- Industrial/Commercial Version
- MOV Circuit Design
- Made in America utilizing American Components
- Cost Effective
- Reliable Solid-State Protection
- Maintenance Free
- Molded Plastic Case
- Threaded 1/2" NPT conduit nipple with locknut
- 18 " Stranded 12 AWG color coded leads
- Suitable for indoor or outdoor installation
- Automatic Recovery, Self Restoring

DESCRIPTION

The HE850 is a MOV (Metal Oxide Varistor) based hardwired Secondary Surge Arrester, often referred to as a Lightning Arrester. The device is designed to protect electrical equipment from damaging effects of Spikes (+) and Notches (-) caused by lightning, utility switching, insulation arcing, electrical motor cycling, and other large or sudden changes in electrical power flow on incoming AC power lines.

The HE850 is a three phase, four wire arrester intended to protect 220/380 VAC systems. The epoxy encapsulated arrester is designed to be easily installed in any position indoors or outdoors utilizing the integral 1/2" threaded nipple and supplied metal lock nut.

The housing is molded from flame retardant plastic that is both weather and UV resistant, and complies with the UL standard for strength and flame resistance properties. The arrester is sealed with UL component recognized epoxy potting compound. The HE850 has four 18" long, 12 AWG multi-stranded leads that are color coded for ease of installation.

The HVPSI HE850 is ideal protection for outdoor lighting and pole lamps, panelboards, oilfield pumps, workshops, irrigation and sump pumps, refrigeration systems, farm equipment including milking machines and poultry processing equipment, electric motors and controls, heat pumps and air conditioning equipment and many other electrical devices.

The HE850 utilizes a single MOV per pole to reduce the potential load balancing/sharing problems during operation.

UL listed versions:

HE500	120/240V,	Single Phase,	Three Wire,	Industrial/Commercial Version.
HE510	120/240V,	Single Phase,	Three Wire,	Residential Version.
HE1203	120/208V,	Three Phase,	Four Wire,	Industrial/Commercial Version.
HE4803	277/480V,	Three Phase,	Four Wire,	Industrial/Commercial Version.

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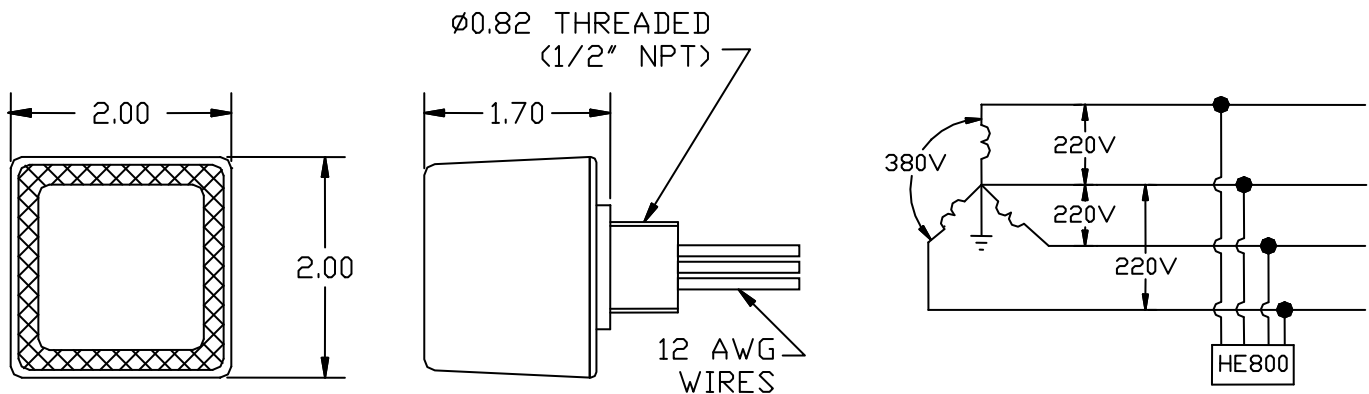
www.DataSheet4U.com

ELECTRICAL CHARACTERISTICS**HE850**

PART NUMBER	SERVICE VOLTAGE AC	PHASE	WIRE CONFIGURATION	TYPICAL CLAMP VOLTAGE 8 X 20uS Current Wave (Line to Ground)				
				1.5kA	5kA	10kA	20kA	25kA
HE850	220/380V 300V Max (rms)	THREE	Line 1 (Black) Line 2 (Black) Line 3 (Black) Neutral/Ground (White)	775V ⁽¹⁾ 875V ⁽²⁾	950V ⁽¹⁾ 1250V ⁽²⁾	1125V ⁽¹⁾ 1750V ⁽²⁾	1300V ⁽¹⁾ 2550V ⁽²⁾	1425V ⁽¹⁾ 2950V ⁽²⁾

(1) 1" leads (2) 18" leads

Formerly HE800 (eur)

DIMENSIONS AND WIRING DIAGRAMS**ARCHITECT and ENGINEERS
SUGGESTED SPECIFICATIONS**

The three phase, four wire Secondary Surge Arrester for 220/380 volt "Wye" AC service or machine equipment shall be a High Voltage Power Systems Model HE850. The lightning arrester shall be of a single MOV per pole design and provide protection for Category C Transient Surges as defined in ANSI C62.41 (Formerly IEEE Std. 587-1980) without degradation of the components. The surge protector shall protect between each line and neutral/ground conductor. The enclosure shall be molded of fire retardant plastic. The unit will be sealed with a UL component recognized epoxy potting compound to minimize moisture and pollution intrusion. A one-half inch conduit nipple and metal lock nut shall be provided. 18 inch, stranded 12 gauge color coded leads shall be provided. The arrester shall carry a one year warrantee.

HIGH VOLTAGE POWER SYSTEMS, INC. reserves the right to make changes in these specifications at any time and without notice in order to supply the best product possible.

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SPECIFICATIONS and STANDARDS

TECHNOLOGY: Metal Oxide Varistors (MOV) each line to neutral/ground.
PEAK SURGE CURRENT: (8x20uS) 25,000 Amps
M C O V: 300 VAC rms (Line to Neutral).
ENCLOSURE: Black molded flame retardant plastic housing with 1/2" x 20 threaded nipple. The housing is weatherproof and UV resistant.
ENCAPSULATION: UL component recognized epoxy potting material.
WIRING: Four 12 gauge stranded color coded leads.
 Black for each line
 White for neutral/ground
OPERATION TEMPERATURE: -40°C to +85°C
RESPONSE TIME: <5ns
CURRENT DRAIN: <100uA
UNIT WEIGHT: 8.5 ounces
SHIPPING WEIGHT: per arrester 9.5 ounces
 per carton (12) 7.5 lbs.
 per case (48) 31 lbs
ANSI : C62.11-1987



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