

PRODUCT DESCRIPTION

A surge arrester/suppressor is a device that blocks voltage spikes and voltage shocks. It operates by routing any power excess to the grounding circuit. TECNOLOGIA TOTAL distributes the products manufactured by DELTA, which follow the ANSI, IEEE and NEMA quality standards for the equipment.



100 SERIES SURGE SUPPRESSOR

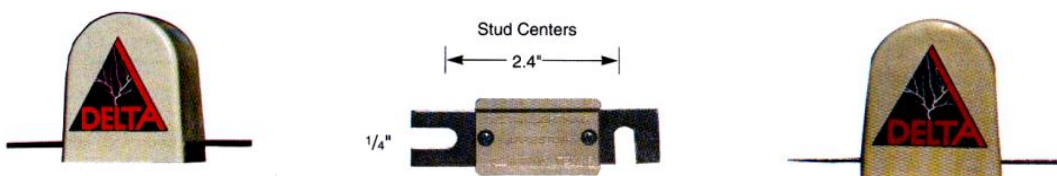
DELTA cathodic protectors are used for AC or DC applications with up to 120 volts, the suppressor stainless steel lugs connect directly to the protected line terminals.

The following tables present the specifications and general driving characteristics of the 100 series.

100 SERIES SPECIFICATION	
Design type	Silicon oxide varistor
Maximum current	25,000 amps
Maximum energy	1,000 joules
Maximum number of peaks	Unlimited
Response time 1 milliampere test	5 nanoseconds
Response time to suppress 10,000 amps	10 nanoseconds
Response time to suppress 25,000 amps	25 nanoseconds
Leakage current at double nominal voltage	None
Wrapping material	PVC

CONDUCTION CHARACTERISTICS 8 X 20 microseconds waveform (ANSI IEEE NEMA STANDARD)					
Voltage rating	Spark voltage	Clamping / discharge voltage forward and backward			
		1,500 A	5,000 A	10,000 A	25,000 A
100 V	500 V	120 V	240 V	480 V	1,080 V

Of the 100 series, the most commonly used suppressor is LA 101 ME, which is used in cathodic protection rectifiers.



300 SERIES SURGE SUPPRESSOR

Fast response, DELTA lightning arrestors / suppressors distributed by TECNOLOGIA TOTAL help prevent damage to computers or other electronic equipment. For installation, attach the lightning rod to the equipment service entrance, connect the black wires to the lines below the main disconnect and connect the white wire to the neutral ground bus.

The following tables present the specifications and general conduction characteristics of the 300 series.

300 SERIES SPECIFICATION	
Design type	Silicon oxide varistor
Maximum current	100,000 amps
Maximum energy	3,000 joules per pole
Maximum number of peaks	Unlimited
Response time 1 miliampere test	5 nanoseconds
Response time to suppress 10,000 amps	10 nanoseconds
Response time to suppress 25,000 amps	25 nanoseconds
Leakage current at double nominal votage	None
Entrance	36" #12 THHN
Wrapping material	PVC
<i>Lock nut and polished washer.</i>	

CONDUCTION CHARACTERISTICS							
8 X 20 microseconds waveform (ANSI IEEE NEMA STANDARD C62.1)							
Discharge current (A)	5,000	10,000	20,000	40,000	60,000	80,000	100,000
Suppressed voltage (V)	240	480	840	1,300	2,000	3,000	4,000
Number of operations	Unlimited					1	



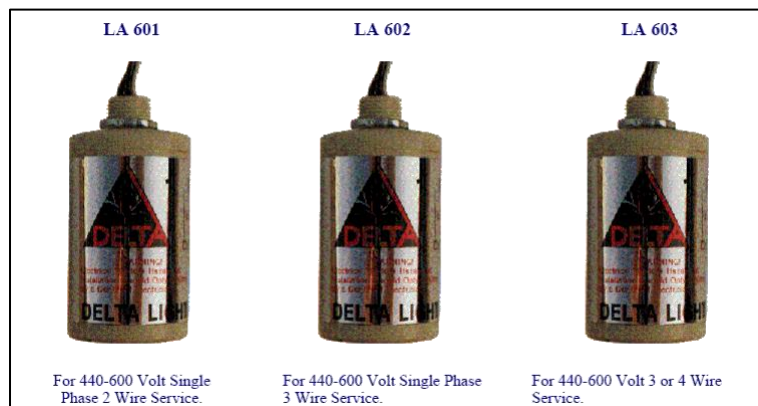
600 SERIES SURGE SUPPRESSOR

The 600 series is fast response, they are lightning arrestors / suppressors for industrial use, they help prevent overvoltage and lightning damage to motors and control equipment. For installation, attach the lightning rod to the service entrance equipment. Connect the black wires to the lines below the main disconnect. Connect the white wire to the neutral ground bus.

The following tables present the specifications and general conduction characteristics of the 600 series.

600 SERIES SPECIFICATION	
Design type	Silicon oxide varistor
Maximum current	100,000 amps
Maximum energy	3,000 joules
Maximum number of peaks	Unlimited
Response time 1 miliampere test	5 nanoseconds
Response time to suppress 10,000 amps	10 nanoseconds
Response time to suppress 25,000 amps	25 nanoseconds
Leakage current at double nominal vottage	None
Entrance	36" #12 THHN
Wrapping material	PVC

CONDUCTION CHARACTERISTICS							
8 X 20 microseconds waveform (ANSI IEEE NEMA STANDARD C62.1)							
Discharge current (A)	5,000	10,000	20,000	40,000	60,000	80,000	100,000
Suppressed voltage (V)	450	920	1,040	1,500	2,300	4,000	5,000
Number of operations	Unlimited					1	



WARRANTY AND LIMITATION OF LIABILITY

TECNOLOGIA TOTAL will not be in any case responsible for damages of any nature that could be derived from an inadequate use of the product. Before using the product, the user must determine if the product is suitable for its intended use, taking all risks and liability that could be derived from its use.

If it's proved that a product is faulty due to manufacturing or its material at the time of sale, or that it does not fulfill during its warranty period the indicated properties in this technical sheet, the only responsibility of TECNOLOGIA TOTAL will consist of replacing the buyer with the quantity of product that is found to be defective. TECNOLOGIA TOTAL does not take any responsibility for any additional cost such as manufacturing cost, withdrawal or re-application of the products. If TECNOLOGIA TOTAL offers a warranty to their clients, express or implicit, or a compensation that differs from the established in this section, this stipulation can not be altered unless a signed agreement by the parties.

