Atlantic Scientific
MTL Surge Technologies

Manufacturers of Transient Voltage Surge Suppression Products

Proven to cut downtime and replacement part costs

ZoneDefender *is specifically engineered for medium to low exposure.*
For small distribution panels, tower lights, equipment cabinets and confined spaces.

Features

- 80,000A per phase (tested capacity)
- Solid state diagnostics
- Metal Oxide Varistor technology
- Remote indication contacts
- Low impedance construction
- Integrated thermal and short circuit fusing for safety
- Close nipple mount
- Ten year warranty
- Flush mount models available
- UL1449 Listed (Model 14406 @ 1500V)

Mechanical Specifications

Enclosure: ..... Durable, lightweight, corrosion resistant, high impact plastic NEMA 1, 2, 3, 3R, 4, 4X, 12, and 13
Dimensions: ..... 6.28" x 5.55" x 2.48" (159.5mm x 141mm x 63mm)
Weight: ..... 3.4 lb. (1.54kg)
Connection: ..... #12 AWG solid (approx. 18")
Mounting: Surface Mount via 4" x 0.21" diameter holes
Close Nipple via ½" nipple
Flush Mount via Mounting Plate (optional at time of ordering)

Electrical Specifications

Maximum Surge Current Capacity per Phase:		80,000A (8/20µs)
Maximum Surge Capacity:	**L-G**	80,000A (80/20µs)
	L-L	80,000A (80/20µs)
	L-N	40,000A (8/20µs)*
	L-L	40,000A (8/20µs)*
	L-G	40,000A (8/20µs)*
	N-G	24,000A (8/20µs)*
		* 90795 ONLY
Duty Cycle Performance:	**80,000A 8/20µs**	1 impulse
	10,000A 8/20µs	>4000 impulses
	100A 8/20µs	infinite
Long Duration Current Pulse (10/1,000µs) capability:		3600A (tested)
AIC Rating:		Suitable for use on a circuit capable of delivering not more than 100,000 rms symmetrical Amperes, 480V maximum
Remote Indication:		Normally Closed Contacts Rated 2A, 125Vac
Status Indication:	**Protection Present:**	Green LED ON & can be remotely installed (optional at time of ordering)
Safety Fusing:		Thermal & Short Circuit Fusing

Part #	Service Voltage	500A 8/20µs	Cat B3 3000A 8/20µs	CAT C3: 10kA	200A Ring	MCOV
14406	480V 3Ø 3 Wire Delta	1480V	1600V	2100V	1430V	550VAC
90795	120/240V 3Ø 4 Wire Delta	310/600V	435/790V	730/1200V	650V	140/275VAC
90897	240V 3Ø 3 Wire Delta	600V	790V	1200V	650V	275VAC

Tested per ANSI/IEEE C62.45 and ANSI/IEEE C62.41

4300 Fortune Place, Suite A • W. Melbourne, FL 32904 • 800-544-4737 • Fax 321-727-0736 • sales@atlanticscientific.com