

Features:

- Medium voltage SPD with dedicated fuse box
- Used in large industrial and heavy duty applications:
 - Oil & gas, water & wastewater, industrial process, chemical, data centers, manufacturing, paper and pulp, etc.
- Voltage specific design – highly configurable
- 50-60Hz and VFD frequencies
- All modes of protection
- Wires included
- 5-year limited warranty

SPD Design Attributes

Low clamping voltage for maximum equipment protection
Parallel design MOV suppression allows installation flexibility
Bi-directional operation for positive and negative polarity surges
Solid state, fully automatic action and reset
Large-Block, 40mm, MOVs
Used in high energy applications including all IEEE C62.41.2
Inorganic silica particle encapsulation <ul style="list-style-type: none"> – Noncombustible at extreme temperature – Superior gaseous expansion tolerance
Double insulated against ground fault or arcing with redundant and separate polypropylene and polyethylene layers
Elastomeric Ceramgard® potting reduces environmental contaminants

Fuse Box Design Attributes

Designed to be installed in front of and in-line with ASCO's medium voltage SPD – fuse box included as part of the 950
Non-conductive NEMA 4X polycarbonate enclosure
Stainless steel lockable latches
Connecting wires from fuse box to power system included: <ul style="list-style-type: none"> – 8 ft. (2.4m) of #6 AWG, 25kV wire each (3 Phase, 1 Ground) – Additional 6kV sleeving on each wire for added safety
Two (2) – 1 ¼ in. threaded hubs included - to enter and exit enclosure
Includes 3 Bussmann fuses: model 5.5CAVE (5.5kV, 15A)
Includes 6 in. of conduit for SPD to fuse box connection

Performance Specifications

Available surge current ratings: <ul style="list-style-type: none"> – 120kA per phase – 240kA per phase
All mode protection: A-B, B-C, A-C, A-G, B-G, C-G
Proven 'large block' 40mm round MOV technology
Less than 1 nanosecond response time

Physical Specifications

NEMA 4 (IP66) heavy gauge steel enclosure
Dimensions: 12 x 12 x 6 in. (310 x 310 x 155 mm)
Weight: 65 lbs (29.5kg)
Relative humidity range: 0 – 95% non-condensing
Operating temperature: -40° F (-40° C) to +185° F (+85° C)
Pre-wired with 2 feet (0.61 Meters) #6 AWG stranded leads for connection to Fuse Box

Fuse Box Physical Specifications

NEMA 4X (IP 66) polycarbonate enclosure
Dimensions: 18 x 16 x 10 in. (457.2 x 406.4 x 254 mm)
Weight: 35 lbs (15.9 kg)
Relative humidity range: 0 – 95% non-condensing
Operating temperature: -40° F (-40° C) to +185° F (+85° C)
Maximum voltage and current: 5500VAC and 15A
Torque value: 80 inch-lbs (9 newton-meters)
Fuse box wire terminal sizes: (wires are included) <ul style="list-style-type: none"> – Phase wires: #8 AWG – 1/0 AWG – Ground wires: #14 AWG - 1/0 AWG

Quality

Five (5) year limited warranty on SPD and fuse box
One (1) year limited warranty on optional monitoring package
RoHS-compliant
ISO 9001:2008 quality management system
ISO 17025:2005 laboratory qualification

Model 950 Number Configurator and Options

950

Model 950
Product
Line

□□□□

Voltage Codes

P

Per Phase
kA Rating
System

□□

kA Rating
Per Phase

A

Modes of
Protection
(Default)

W

Connection Type
(Default)

W = Wire leads

□

Monitoring
Options

□

Enclosure

N

UL 1449 Type

□

Accessory/
Option(s)

Code	Service voltage	Maximum continuous operating voltage (MCOV)
10XD =	1000V	1200VAC
15XD =	1500V	2000VAC
20XD =	2000V	2400VAC
25XD =	2500V	3400VAC
30XD =	3000V	4000VAC
36XD =	3600V	4800VAC
41XD =	4100V	5600VAC

12 = 120kA
per
phase

24 = 240kA
per
phase

Not applicable

0 = No trailing accessory/option

G = NEMA 4
SPD: steel
fuse box: polycarbonate

R = NEMA 3R
SPD: steel
fuse box: polycarbonate
diagnostics: steel 3R

N = None (default)

R = LEDs and dry contact relays
(R enclosure only)
(120kA only)

Optional Diagnostic Monitoring Package

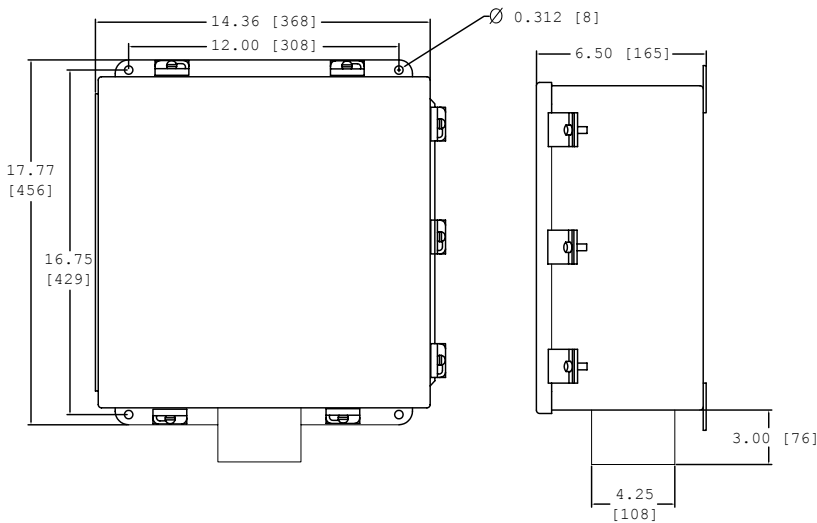
- Allows for on-site or remote monitoring of suppression circuit, grounded phase or phase loss
- High intensity green LED indicator lights for each individual phase
 - Bright enough for drive-by visual confirmation
- Form C dry contact relay for each individual phase
- Available on 120kA models only with NEMA 3R vented enclosure



(Fuse box not shown)

Dimensions (in. / mm)

MV SPD



Fuse Box

