

SPA3.5: Local Panel Protection

I_p=160kA

The SPA3.5 Series is a compact AC power line surge suppressor used at the local service panel to provide brute force protection to sensitive downstream equipment. It is ideal when a plug-in protector is insufficient and a larger protector inappropriate for the application. The unit guard sensitive equipment such as CNC machines, industrial robots, soft start control systems and electronic adjustable speed drives.

UL-listed and shunt connected, the suppressor has more energy handling capability than other protectors of equivalent size.

A surge of voltage in a facility will dissipate by subdividing throughout the building's power distribution system. The least amount of damaging surge is experienced by the local panels deep in the system. The surge suppression capability of the SPA3.5 has been designed specifically for installation at this point. It rapidly directs transient currents in less than 5 nanoseconds. LED indicators show protection status at all times.

Call our Technical Support Group with your application.

MCG SURGE PROTECTION

Call Toll-Free 1-800-851-1508



UL Listed 1449
Second Edition Listed

Features of the SPA3.5 Series:

- ✓ **Full Size Performance** in a compact package - 40mm MOV's and transient rated 5 AG fuses. All modes (L-N, L-L, L-G, N-G) are protected.
- ✓ **Fast Clamp Response** - In less than five nanoseconds, destructive transient currents are intercepted and safely diverted to ground.
- ✓ **Substantial Energy Absorption Capability** - The SPA3.5 has up to eight times the joule rating of any comparable unit available today.
- ✓ **Bipolar-Bidirectional Protection** - Eliminates coupling through a common panel into another room preventing the threat of additional surge damage.
- ✓ **Compact Design** - The SPA3.5's low profile enable installation where substantial protection is needed but space is limited.
- ✓ **Enhanced Status Indicators** - Green LED status indicators verify that protection is present.

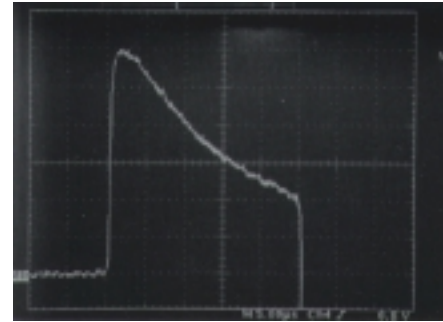
SPA3.5 Series

meets or exceeds ANSI/IEEE C62.41-1991 and UL 1449, 2nd Ed.

Model	Rated Voltage	Description	Energy Absorption (8/20 μ s) Joules Total	6" Lead Length Typical Peak Suppression voltage (8/20 μ s) 3kA
SPA3.5-120S	120VAC	1ph, 2w+gnd	3115j	500
SPA3.5-220S	220VAC	1ph, 2w+gnd	8400	800
SPA3.5-240S	240VAC	1ph, 2w+gnd	8400	800
SPA3.5-277S	277VAC	1ph, 2w+gnd	9000	900

Electrical Specifications

Maximum continuous operating VAC:	115% rated line voltage
Response time:	<5 nanoseconds
Modes of Protection:	L-L, L-N, N-G, L-G (where applicable)
Surge current per phase (8/20 μ s), 1 Event:	SPA3.5 - 160kA
Surge life per phase (8/20 μ s), 200 Events:	SPA3.5 - 20kA
Surge life per phase (8/20 μ s), 20,000 Events:	SPA3.5 - 6kA
Protection present indicator:	Green LED per phase
Operating altitude:	13,000 ft. (4000m)
Temperature (Operating):	-40° to +70°C
Temperature (Storage):	-40° to +85°C
Enclosure:	NEMA 1
Dimensions:	7.25" x 4.25" x 2.75"
Mounting:	6.5" x 3.5" x 2.22" ID - 4 holes
Connection:	#12 AWG with 3/4" compression connector
Shipping weight:	3 lbs.



Shown here is a typical clamp waveform: SPA3.5-120S suppression voltage is 600V peak at 3kA (8/20) short circuit.

Note: Measurement made with 6" lead length.

Ordering Information

Example: SPA3.5-120S=120VAC, 1 phase, 2 wire + gnd.

Call Us Toll Free at
1-800-851-1508