

Standard Class Local Protector

$I_p=80kA$

The SF80 is a compact AC power line surge suppressor used at the local service panel to provide brute force protection for sensitive equipment. The SF80 is designed to protect at risk electronics such as CNC machines, industrial robots, soft start control systems, electronic adjustable speed drives, etc.

A surge of voltage in a facility will dissipate by subdividing throughout the building's distribution system. The least amount of damaging energy is experienced by the local panels deep in the system. The suppression capability of the SF80 is intended specifically for installation at this point.

The low profile unit (7.25" x 4.25" x 2.75") is ideal for applications where space is limited, such as crowded equipment closets or specialized vans/mobile units. To install, simply hardwire close to the equipment being protected. The protector draws no current and remains in standby mode until the voltage exceeds the specified threshold.

The SF80 is constructed with 40mm MOVs for long life expectancy.



ANSI/IEEE
Category A

Features of the SF80

- ✔ **Bipolar/Bidirectional Protection**
Eliminates coupling through a common panel into another room preventing the threat of additional surge damage.
- ✔ **Fast Clamp Response**
In less than five nanoseconds, destructive transient currents are intercepted and safely diverted to ground.
- ✔ **Ten Year Warranty**
No questions, no nonsense.
- ✔ **Enhanced Status Indicators**
Each phase has a green LED status indicator verifying that protection is present.
- ✔ **Compact Design**
The SF80's low profile enable installation where substantial protection is needed but space is limited.
- ✔ **MOV Technology - 40mm.**

SF80 Electrical Specifications

The SF80 Series of surge protectors meet or exceed ANSI/IEEE C62.41-1991 and UL 1449, 2nd Ed.

Model	Rated Voltage	Description	Energy Absorption (8/20µs) Joules Total	UL1449 Surge Voltage (8/20µs) 500A
SF80-120T	120/240VAC	1 phase, 3w+gnd	3,115	500V
SF80-120Y	120/208	3 phase, 4w+gnd wye	4,361	500
SF80-220Y	220/380	3 phase, 4w+gnd, wye	11,760	800
SF80-240Y	240/415	3 phase, 4w+gnd, wye	11,760	800
SF80-240D	240	3 phase, 3w+gnd, delta	10,080	800
SF80-240DCT	240/120/120*	3 phase, 4w+gnd, hi-leg	7,532	800/500
SF80-277Y	277/480	3 phase, 4w+gnd, wye	12,600	900
SF80-480D	480	3 phase, 3w+gnd, delta	18,000	1500

* High-leg delta center tapped

Maximum Continuous Operating VAC: 115% rated line voltage
Response time: <5 nanoseconds

Modes of protection: L-N, L-G, L-L, N-G
(where applicable)

Surge current/phase (8/20µs) 1 event: 80kA

Surge life/phase (8/20µs) 200 events: 10kA

Surge life/phase (8/20µs) 20,000 impulses: 3kA

Protection present indicators: Green LED per phase

Operating altitude: 13,000 ft. (4000m)

Temperature (operating): -40° to +70°C

Temperature (storage): -40° to +85°C

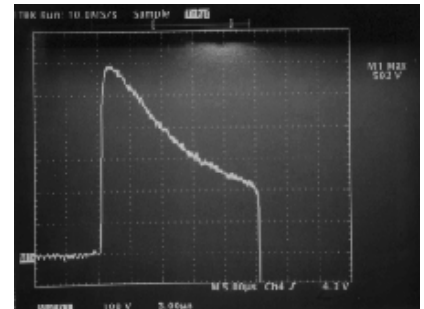
Enclosure: NEMA 1

Dimensions: 7.25" x 4.25" x 2.75"

Mounting: 6.5" x 3.5"/.22" ID - 4 holes

Connection: #12 AWG with 3/4" compression connector

Shipping weight: 3 lbs.



Shown here is a typical clamp waveform: SF80-120Y. Suppression voltage is 592V peak at 3kA (8/20).

Ordering Information

Example: SF80-120Y = 120/208 VAC, 3 phase, 4w+gnd, wye.

No charge filter option = SF80-120YF.

MCG Surge Protection

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