

Surge Protection Devices (SPD) Types and Ratings



- Electrical Room
- Manufacturing
- Datacenter

Eaton Surge Protection Features:

- Industry leading technology
- Meets or exceeds UL safety requirements
- Wide range of products backed by solid warranty
- Expert support network provides application assistance

Surge Protection Benefits:

- Reduce maintenance costs and downtime
- Extend the life of electrical equipment
- Protect against catastrophic surge events
- Eliminate data loss and communication issues



A Before Service Disconnect

Eaton SPD Series (with basic package), CVX or SP1
Any kA Rating



B After Service Disconnect

Eaton SPD Series (all packages)
> 800A = 250 kA to 300 kA
< 800A = 160 kA to 200 kA



C Distribution Panels / MCC's

Eaton SPD or SPV Series
80 kA to 160 kA



D Branch/Sub Panel's

Eaton SPD, SPV or CVX Series
50 kA to 120 kA



Powering Business Worldwide

Notes:

1. Sizing is a general rule of thumb. **2.** High exposure may increase kA rating. **3.** Highly sensitive equipment may require dedicated load series SPD's

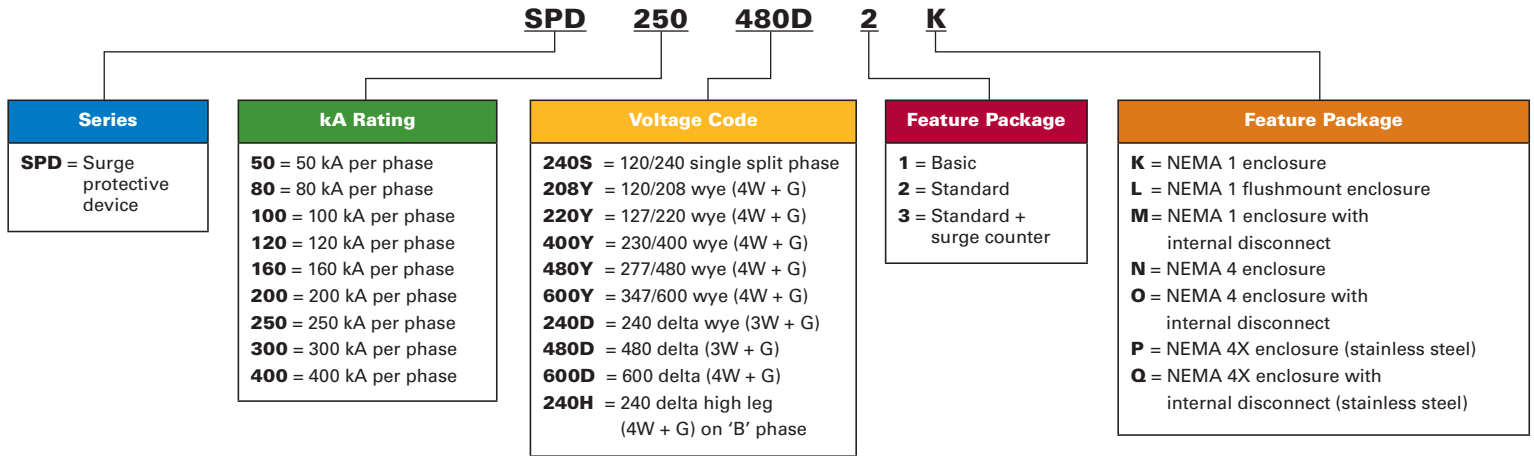
Contact Eaton's Technical Resource Center (TRC) Surge Protection Application Engineers at 1.800.809.2772, choose option #4, then option #2 or at spd@eaton.com

Eaton's family of Surge Protection Devices

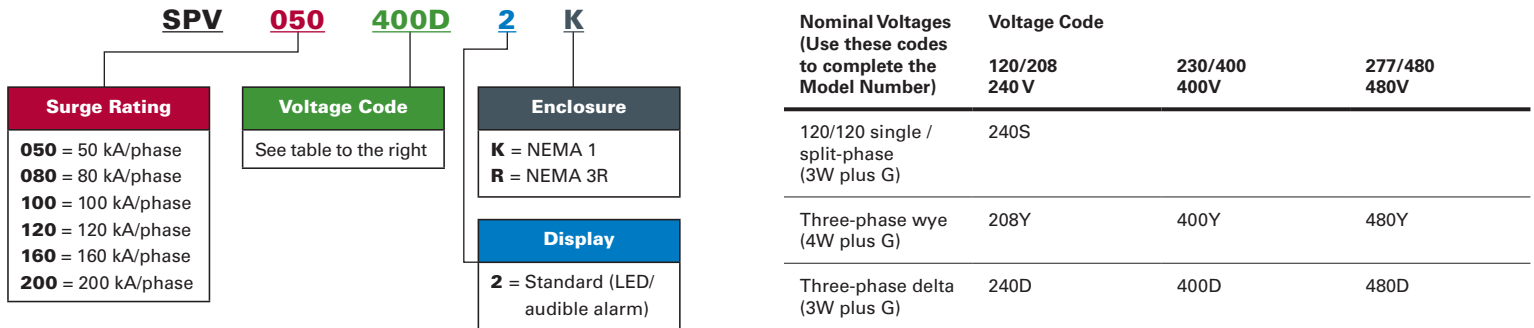
	Product Series	L to N Protection Mode	L to G & N Protection Mode	Per @ kA Range	EMI/RFI Filtering Attenuation	Nominal Discharge Current (In)	Short-Circuit Current Rating (SCCR)	Alarm Contacts	Surge Counter (Option)	Warranty (years)	Enclosure Options (NEMA Types)	Integrated Mounting
SPD	Yes	Yes	50 – 400	50 dB	20 kA	200 kA	Yes	Yes	15	1, 4 & 4X	Yes	
SPV	Yes	Yes	50 – 200	40 dB	20 kA (2)	42 kA (5)	Yes	No	10	1 & 3R	No	
CVX	Yes	Yes (1)	50 – 100	No	20 kA (3)	100 kA	No	No	5	4X	No	
SP1	Yes	No	50 only	No	20 kA (4)	200 kA	No	No	2	4	No	

(1) 100 kA units only (2) 208Y, 240S, 240D, 400Y & 480YL units rated 10 kA in (3) 480L, 600D and 600Y units rated 10 kA in (4) 600Y and 600D units rated 10 kA in (5) 5 kA SCCR for 400D & 480D

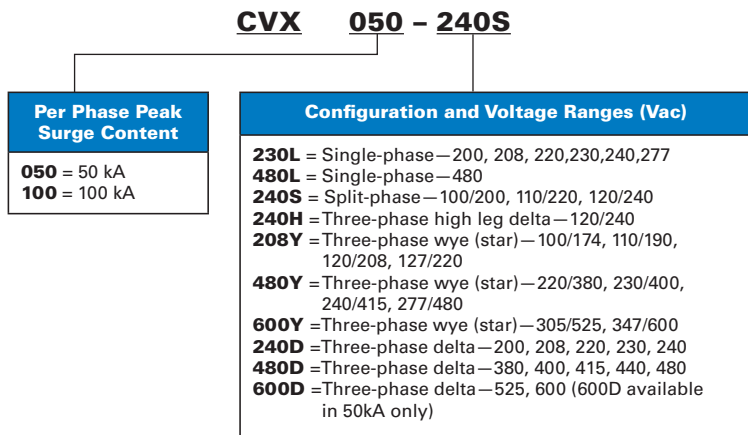
SPD - Flagship line offering superior protection, a wide range of features & industry leading safety



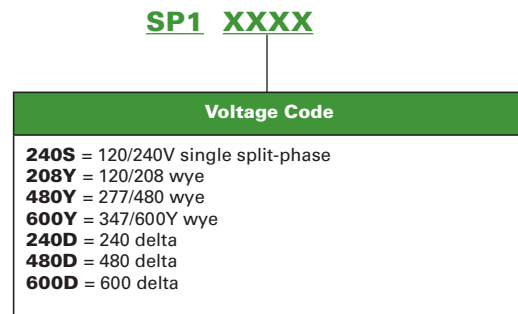
SPV - Value line offering solid protection for many applications



CVX - Branch circuit & control panel protection



SP1 - Basic Protection



Contact Eaton's Technical Resource Center (TRC) Surge Protection Application Engineers at 1.800.809.2772, choose option #4, then option #2 or at spd@eaton.com