








Which surge solution is right for you?

Use this guide to figure out which series best meets your needs and applications.

Application	Commercial/industrial applications		Light commercial applications		Original equipment manufacturer/control panel applications		
Product category	Main switchgear, switchboard, motor control center, outdoor load		Distribution panelboard, subpanel, loadcenter		Control panel, point of use		
IEEE exposure	Category C		Category B		Category A		
Typical panel current rating	Unlimited	Up to 4000 A	Up to 1000 A	Up to 400 A	Control panel/point of use Up to 200 A		Single phase point of use
Peak kA rating per phase	100–800 kA	50–400 kA	50–200 kA	50–100 kA	50 kA	45 kA	Up to 80 kA
Nominal voltage	120–600 Vac	120–600 Vac	120–600 Vac	120–600 Vac 48, 125 Vdc	120–600 Vac	120–600 Vac	100–240 Vac 24, 48 Vdc
UL 1449/CSA type	1 and 2	1 and 2	1 and 2	1	1	1	2
UL 1283 EMI/RFI filtering (dB)	50 dB	50 dB	40 dB	0 dB	0 dB	0 dB	Up to 75 dB
Enclosure	NEMA® 4 and 4X	NEMA 1, 4 and 4X	NEMA 4X	NEMA 4X	NEMA 4	NEMA 4X	Open
Listing	cUL _{US}	cUL _{US} /CSA	cUL _{US} /CSA	UL/CSA/CE	UL	UL/CSA	cUR _{US} /CSA
Warranty	20 years ¹	15 years ¹	10 years ¹	5 years	2 years	2 years	10/15 years ¹
Special features/applications	Feeder tap rule, modular design	Integrated or side-mount applications	Configurable design	Compact design	DIN-rail mounting	Rear-nipple mounting	DIN-rail mounting, series wiring
Options							
Internal disconnect	Yes	Yes	No	No	No	No	No
Audible alarm	Yes	Yes	Yes	No	No	No	No
Form C contacts	Yes	Yes	Yes	No	No	No	Yes ²
Surge counter	Yes	Yes	No	No	No	No	No
Product series	 SPM Series	 SPD Series	 SPC Series	 CVX Series	 SP1 Series	 SP2 Series	 AEGIS Series

¹ With online registration

² Available on some models



Powering Business Worldwide

SPD series

Flagship line offering superior protection, a wide range of features and industry-leading safety.



SPD 250 480Y 2 K

Surge rating
050 = 50 kA per phase
080 = 80 kA per phase
100 = 100 kA per phase
120 = 120 kA per phase
160 = 160 kA per phase
200 = 200 kA per phase
250 = 250 kA per phase
300 = 300 kA per phase
400 = 400 kA per phase

Voltage code
240S = 120/240 single split-phase
208Y = 120/208 wye (4W + G)
220Y = 127/220 wye (4W + G)
400Y = 230/400 wye (4W + G)
480Y = 277/480 wye (4W + G)
600Y = 347/600 wye (4W + G)
240D = 240 delta wye (3W + G)
480D = 480 delta (3W + G)
600D = 600 delta (4W + G)
240H = 240 delta high leg (4W + G)

Feature package
1 = Basic ①
2 = Standard ①②
3 = Standard + surge counter ①②③

Enclosure
K = NEMA 1 enclosure
L = NEMA 1 flushmount enclosure
M = NEMA 1 enclosure with internal disconnect
N = NEMA 4 enclosure
O = NEMA 4 enclosure with internal disconnect
P = NEMA 4X enclosure (stainless steel)
Q = NEMA 4X enclosure with internal disconnect (stainless steel)

SPM series

Innovative safety features with high surge ratings and redundant/field changeable surge modules.



SPM 600 480Y 3 Y

Voltage code
240S = 120/240 single split-phase
208Y = 120/208 wye (4W + G)
220Y = 127/220 wye (4W + G)
400Y = 230/400 wye (4W + G)
480Y = 277/480 wye (4W + G)
600Y = 347/600 wye (4W + G)
240D = 240 delta wye (3W + G)
480D = 480 delta (3W + G)
600D = 600 delta (4W + G)
240H = 240 delta high leg (4W + G)

Feature package
1 = Basic ①
3 = Standard + surge counter ①②③

Enclosure
R = NEMA 4 steel enclosure with disconnect and one module
S = NEMA 4 steel enclosure with disconnect and two modules
T = NEMA 4 steel enclosure with terminal block and one module
U = NEMA 4 steel enclosure with terminal block and two modules
V = NEMA 4X stainless steel enclosure with disconnect and one module
W = NEMA 4X stainless steel enclosure with disconnect and two modules
X = NEMA 4X stainless steel enclosure with terminal block and one module
Y = NEMA 4X stainless steel enclosure with terminal block and two modules

Surge rating
100 = 100 kA per phase
120 = 120 kA per phase
160 = 160 kA per phase
200 = 200 kA per phase
250 = 250 kA per phase
300 = 300 kA per phase
320 = 320 kA per phase
400 = 400 kA per phase
500 = 500 kA per phase
600 = 600 kA per phase
800 = 800 kA per phase

SPC series

Robust protection in a compact, flexible design for many applications.



SPC 200 208Y 8 P

Surge rating
050 = 50 kA per phase
080 = 80 kA per phase
100 = 100 kA per phase
120 = 120 kA per phase
150 = 150 kA per phase
160 = 160 kA per phase
200 = 200 kA per phase

Voltage code
120N = 120 single phase (2W + G)
240N = 240 single phase (2W + G)
277N = 277 single phase (2W + G)
480N = 488 single phase (2W + G)
240S = 120/240 split phase (3W + G)
240D = 240 delta (3W + G)
480D = 480 delta (3W + G)
600D = 600 delta (3W + G)
240H = 240 high leg delta (4W + G)
208Y = 120/208 wye (4W + G)
415Y = 240/400 wye (4W + G)
480Y = 277/480 wye (4W + G)
600Y = 347/600 wye (4W + G)

Feature package
1 = No options
2 = EMI/RFI filtering
3 = Audible alarm
4 = Form C relay
5 = Audible alarm and form C relay
6 = Filtering and audible alarm
7 = Filtering and form C relay
8 = Filtering, audible alarm and form C relay

Enclosure
P = NEMA 4X enclosure

SP1 series

Basic protection

SP1 240S



Voltage code
240S = 120/240 single split-phase
208Y = 120/208 wye
480Y = 277/480 wye
600Y = 347/600 wye
240D = 240 delta
480D = 480 delta
600D = 600 delta

SP2 series

Basic protection

SP2 240S



Voltage code
120 = 120
240 = 240
240S = 120/240
240D = 240
480D = 480
208Y = 120/208
480Y = 277/480
600Y = 347/600

CVX series

Branch circuit and control panel protection.



CVX 050 - 208Y

Voltage code
230L = Single-phase – 200, 208, 220, 230, 240, 277
480L = Single-phase – 480
240S = Split-phase – 100/200, 110/220, 120/240
240H = Three-phase high leg delta – 120/240
208Y = Three-phase wye (star) – 100/174, 110/190, 120/208, 127/220
480Y = Three-phase wye (star) – 220/380, 230/400, 240/415, 277/480
600Y = Three-phase wye (star) – 305/525, 347/600
240D = Three-phase delta – 200, 208, 220, 230, 240
480D = Three-phase delta – 380, 400, 415, 440, 480
600D = Three-phase delta – 525, 600 (600D available in 50 kA only)

Surge rating
050 = 50 kA per phase
100 = 100 kA per phase

- ① Dual-colored protection status indicators for each phase and neutral-ground protection mode
- ② Audible alarm with silence button, Form C relay contact and EMI/RFI filtering
- ③ Surge counter with reset button

Note: For AEGIS™ information, see the documentation tab at Eaton.com/aegis.

For more information on Eaton's surge products, go to Eaton.com/spd

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To contact our surge technical team, call Eaton's Technical Resource Center at 1.800.809.2772, option 4, option 2 or email us at spd@eaton.com.



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