

Which surge solution is right for you?

Use this guide to determine which series meets your application needs.

Application	Industrial/commercial applications		Commercial/light industrial 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	Up to 4000 A	Up to 4000 A	Up to 1000 A	Up to 400 A	Single-phase point of use
Peak kA rating per phase	48–400 kA	48–400 kA	50–200 kA	50–100 kA	Up to 80 kA
Nominal voltage	100–600 Vac	100–600 Vac	120–600 Vac	120–600 Vac; 48, 125 Vdc	100–240 Vac; 24, 48 Vdc
UL® 1449/CSA® type	1 and 2	1 and 2	1 and 2	1	2, component assembly
UL 1283 EMI/RFI filtering (dB)	40 dB	—	40 dB	—	Up to 75 dB
Enclosure	NEMA® 4 and 4X	NEMA 4 and 4X	NEMA 4X	NEMA 4X	No NEMA rating
Listing	ETL _{us} /UL _{us} ①	ETL _{us} /UL _{us} ①	UL _{us} /CSA	UL _{Listed} /CSA/CE	UL _{us} /CSA ①
Warranty	20 years ②	20 years ②	15 years ②	5 years	10/15 years ②
Special features/applications	Side-mount application	Side-mount application	Side-mount configurable design	Side-mount compact design	DIN rail mounting, series wiring ①
Options					
Internal disconnect	Yes ①	Yes ①	No	No	No
Audible alarm	Yes	Yes	Yes	No	No
Form C contacts	Yes	Yes	Yes	No	Yes ①
Surge counter	Yes	Yes	No	No	No
Product series	PTE Series	PTX Series	EQ2 Series	XT Series	Critical load protection



① Available on some models

② With online registration

Note: For DIN rail OEM surge offering, please reference our OEM surge guide PA158004EN.

For technical assistance with surge applications, contact the Eaton Technical Resource Center:

1-800-809-2772, option 5, option 2

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Powering Business Worldwide

Catalog numbering systems

PTE and PTX Series



Model
PT = Protector

Circuit design
X = Standard suppression
E = Active Tracking Network (ATN) sine wave tracking, UL 1283

Per phase peak surge current (kA)	
Legacy	
048 = 48	160 = 160
065 = 65	240 = 240
080 = 80	300 = 300
120 = 120	400 = 400
Standard	
050 = 50 ①	120 = 120
080 = 80 ①	160 = 160
100 = 100	200 = 200

Configuration and voltage ranges (Vac)	
1P101	= Single-phase—100, 110, 120, 127
1P201	= Single-phase—200, 208, 220, 230, 240, 277
1S101	= Split-phase—100/200, 110/220, 120/240, 127/254
3Y101	= Three-phase wye (star)—100/175, 110/190, 120/208, 127/220
3Y201	= Three-phase wye (star)—220/380, 230/400, 240/415, 277/480
3Y300	= Three-phase wye (star)—305/525, 347/600
3D101	= Three-phase high-leg delta—120/240
NN201	= Three-phase delta—200, 208, 220, 230, 240
NN400	= Three-phase delta—380, 400, 415, 440, 480
NN501	= Three-phase delta—525, 600

Optional upgrades ②	
Legacy	
C = Integrated circuit breaker	
CD = Integrated circuit breaker with external disconnect	
SD = S.M.A.R.T. surge counter	
Note: Omit if no upgrades are needed.	
Standard	
NL = LED display system	4N = NEMA 4
NS = S.M.A.R.T. diagnostics	4X = NEMA 4X

EQ2 Series



Series
EQ = Equalizer 2

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

Voltage code	
1P101	= Single-phase—100, 110, 120, 127 (2W+G)
1P201	= Single-phase—200, 208, 220, 230, 240, 277 (2W+G)
1P400	= Single-phase—480 (2W+G)
1S101	= Split-phase—100/200, 110/220, 120/240, 127/254 (3W+G)
NN201	= Three-phase delta—200, 208, 220, 230, 240 (3W+G)
NN400	= Three-phase delta—380, 400, 415, 440, 480 (3W+G)
NN501	= Three-phase delta—525, 600 (3W+G)
3D101	= Three-phase high-leg delta—120/240 (4W+G)
3Y101	= Three-phase wye—100/175, 110/190, 120/208, 127/220 (4W+G)
3Y201	= Three-phase wye—220/380, 230/400, 240/415, 277/480 (4W+G)
3Y300	= Three-phase wye—305/525, 347/600 (4W+G)

Features	
Options	SPD application
1 = No options (standard configuration)	Type 1
2 = Filtering, UL 1283 7th Edition	Type 2
3 = Audible alarm	Type 1
4 = Form C relay	Type 1
5 = Audible alarm and Form C relay	Type 1
6 = Filtering and audible alarm	Type 2
7 = Filtering and Form C relay	Type 2
8 = Filtering, audible alarm and Form C relay	Type 2

XT Series



XT 050 - 1P201

Per phase peak surge current (kA)
050 = 50
100 = 100 ③

Configuration and voltage ranges (Vac)	
1P201	= Single-phase—200, 208, 220, 230, 240, 277
1P400	= Single-phase—380, 400, 440, 460, 480
1S101	= Split-phase—100/200, 110/220, 120/240
3D101	= Three-phase high-leg delta—120/240
3Y101	= Three-phase wye (star)—100/174, 110/190, 120/208, 127/220
3Y201	= Three-phase wye (star)—220/380, 230/400, 240/415, 277/480
3Y300	= Three-phase wye (star)—305/525, 347/600
NN201	= Three-phase delta—200, 208, 220, 230, 240
NN400	= Three-phase delta—380, 400, 415, 440, 480
NN501	= Three-phase delta—525, 600 (600D available in 50 kA only)
048DC	= Direct current—48 Vdc ③
125DC	= Direct current—125 Vdc ③

- ① Standard 050/080 models PTE only.
- ② Legacy PTE 048/065/080/120/160 kA and PTX 120/160 kA models C/CD upgrade is required.
- ③ DC models only available in 50 kA.
- ④ Only available in the 10 A, 120 Vac CF version.
- ⑤ Only available in the 120 Vac version.

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Critical load protection (IT)



IT CF 120 10 - CP

Protection/filtering	Voltage	Amperage	Options
PH = Premium protection with hybrid filtering	120 = 120 Vac 240 = 240 Vac	05 = 5 A 10 = 10 A 15 = 15 A 20 = 20 A	
PV = Premium protection with filtering	120 = 120 Vac 240 = 240 Vac	01 = 1 A 03 = 3 A 05 = 5 A	
CF = Critical protection with filtering	120 = 120 Vac 240 = 240 Vac	10 = 10 A	CP = Compact ④
	024 = 24 Vdc 048 = 48 Vdc	10 = 10 A	DIN = DIN mount (2.5-inch wide)
	230 = 230 Vac	15 = 15 A	Optional DIN mount kit DINRAILKIT-30ITCF
CN = Critical protection without filtering	120 = 120 Vac 230 = 230 Vac	30 = 30 A	RJ = Telcom protection and Form C status contacts Optional DIN mount kit DINRAILKIT-30ITCF
	024 = 24 Vdc 048 = 48 Vdc	60 = 60 A ⑤	RJ = Telcom protection and Form C status contacts Optional DIN mount kit DINRAILKIT-60ITCF

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