Model CPX Compact Parallel TVSS Systems

Model CPX is designed for applications at the lighting panel or at other sub-distribution or critical load sites within your facility. It is the perfect product for additional transient surge protection to back up the service entrance TVSS system, providing protection from transients that are internally generated. Model CPX is rated for the Category C1/B3 environment and is UL 1449 Second Edition Listed.

These systems provide an economical solution for providing TVSS protection in the expanding retrofit TVSS market, or any number of other applications. The systems are available in all popular single phase, split phase and three phase voltages, including delta configurations.

Model CPX systems utilize the same industryproven United Power "Clear Choice" hybrid technology consisting of silicon avalanche diodes for less than 1 nanosecond response

Features

Benefits

- Protects Loads from High Energy Transients
- Clamps Voltage Close to Nominal Waveform
- · Diverts Surges in All Paths Away From Load
- Filters Line Noise
- 5-Year Warranty

Electrical

- Available in Popular Voltage Configurations
- Up to 40 kA Surge Current Rated Per Mode
- <1 Nanosecond Response Time
- 1, 2 or 3 Stage Systems Available

Environmental

- Small Size for Universal Applications
- NEMA 4X: Watertight, Corrosion Resistant
- On-Board LED Monitoring Lights
- Form C Summary Alarm Contacts

Standards

- UL 1449 Second Edition Listed
- UL 1283 Listed
- IEEE C62.41 Category C1/B3
- IEEE C62.45 Tested for Long Life

time, metal oxide varistors and noise filtering capacitors found in other United Power TVSS products. The hybrid circuitry provides bi-directional protection and is available in surge current ratings from 13,000 surge amps per mode of protection up to 40,000 surge amps of protection per mode.



Regardless of surge capacity or voltage code, Model CPX systems are small in size and easy to install.



Retrofit Model CPX Onto Existing Power Panels

One of the most popular applications for Model CPX is for retrofitting onto an existing power panel. The system can be field installed, and wired directly into the circuit breaker serving as the TVSS system's disconnect device. Model CPX is an ideal means of protecting all of the critical loads on the panel-board with a single, performance-oriented Category C1/B3 device.

Model CPX: Compact Parallel TVSS Technical Specifications

FEATURES—GENERAL	Model CPX1			Model CPX2			Model CPX3		
UL/CUL 1449 Second Edition	Yes			Yes			Yes		
Suppression Technology	Hybrid: SADs/MOVs/Capacitors			Hybrid: SADs/MOVs/Capacitors			Hybrid: SADs/MOVs/Capacitors		
Response Time	<1 Nanosecond			<1 Nanosecond			<1 Nanosecond		
200 kAIC Fusing	Standard			Standard			Standard		
Noise Filtering	Standard			Standard			Standard		
System Status Lights	Standard			Standard			Standard		
Form C Dry Contacts	Standard			Standard			Standard		
Remote Monitoring Available	Yes			Yes			Yes		
Enclosure Type	NEMA 4X			NEMA 4X			NEMA 4X		
Enclosure Dimensions (HxWxD)	4.7" x 4.8" x 3.4"		4.7" x 4.8" x 3.4"			4.7" x 4.8" x 3.4"			
SURGE CURRENT RATINGS	Model CPX1 Systems w/Neutral Conductor Shown		Model CPX2 Systems w/o Neutral Conductor Shown			Model CPX3 Systems w/Neutral Conductor Shown			
Nameplate	Mode	Phase	System	Mode	Phase	System	Mode	Phase	System
013K	13 kA	13 kA	13 kA	13 kA	26 kA	26 kA	13 kA	26 kA	39 kA
020K	20 kA	20 kA	20 kA	20 kA	40 kA	40 kA	20 kA	40 kA	60 kA
026K	26 kA	26 kA	26 kA	26 kA	52 kA	52 kA	26 kA	52 kA	78 kA
040K	40 kA	40 kA	40 kA	40 kA	80 kA	80 kA	40 kA	80 kA	120 kA

CLAMPING VOLTAGE RATINGS

UL 1449 Second Edition Listed

System	System Voltage	L-N	L-G	N-G	L-L
Model CPX1	120/240	400	N/A	N/A	700
	120/208	400	N/A	N/A	700
	277/480	800	N/A	N/A	1500
Model CPX2	120/240	400	N/A	330	700
	120/208	400	N/A	330	700
	277/480	800	N/A	330	1500
	480 Delta	N/A	1500	N/A	1800
Model CPX3	120/240	400	400	330	700
	120/208	400	400	330	700
	277/480	800	800	330	1500

Model CPX Part Numbering System

Example:

CPX3-S1-040K-31-L

Family Number of Stages

CPX3 Three Stage L-N, L-G & N-G1

Systems with Neutral Conductor
 Systems without Netural Conductor

Monitoring

S1 Standard Level 1 w/Form C Summary Alarm Contact

Surge Current Rating

013K 13 kA Per Each Protection Mode 020K 20 kA Per Each Protection Mode 026K 26 kA Per Each Protection Mode 040K 40 kA Per Each Protection Mode

Voltage Code

- 11 120 Single Phase
- 25 120/240 Split Phase
- 31 120/208 Three Phase
- 34 277/480 Three Phase
- 43 480 Three Phase Delta Consult factory for voltage codes not listed!

Termination MethodL 18" Leads Standard



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