



Features:

- UL 1449 Third Edition Listed
- Type 1 SPD
 - All UL required OCP & Safety Coordination included inside
 - Can be installed line-side or load-side of main disconnect
- 20kA Inominal (I_n) (most models)
- 200kA SCCRs (most models)
- UL 96A Lightning Protection Master Label compliant (@20kA I_)
- Voltage Specific Design Highly configurable
- All MOV suppression elements monitored

Performance Specifications

- Surge Capacities (L-N, L-G, N-G) 100kA/phase
- · UL 1449 Third Edition Listed
- UL 1449-3 Type 1 SPD (cUL Type 2 optional)
- UL 1449-3 tested Inominal (I_n): 20kA & 10kA
- UL 1449-3 tested SCCR: 200kA & 100kA
- UL 1449-3 Voltage Protection Ratings (VPRs):
 - 208Y/120V: as low as 600V
 - 480Y/277V: as low as 1000V (data table on back)
- · Less than 1 nanosecond response time
- Repetitive Impulse: 5,000 hits

Physical Specifications

- · Relative Humidity Range: 0 -95% non-condensing
- Operating Frequency: 47-63Hz (also 400Hz on <480V)
- Operating Temperature: -25°C (-15°F) to +60°C (140°F)
- Weight: 3 lbs (1.4 kg)
- NEMA 4X Polycarbonate enclosure UL 746C(f1) & UL 94-5VA
- Dimensions: 8" x 3" x 3" (203mm x 76mm x 76mm)
- · 3/4" threaded hub weather resistant 4X
- · Pre-wired with 3' (1m) of #10 AWG conductor
- Typical connection: #10 AWG and 30A breaker

Design Features

- Designed, Manufactured & Tested consistent with:
 - ANSI/IEEE C62.41.1-2002, C62.41.2-2002, and C62.45-2002

TEXCS Series

- NEMA LS-1
- NEC Article 285
- IEC 61643, CE
- High Energy Parallel Design for Category C3 applications, the highest exposure to surge activity
- For External Mounting next to Switchgear, Motor Controls Centers or Panelboards
- Individually Fused & Thermally Protected MOVs
- Large-Block 34mm square MOVs
- · Solid State Bidirectional Operation

Diagnostic Monitoring

- · 100% monitoring Every MOV is monitored, incl. N-G
- · Green LED Status indicator per phase
- Phase Loss monitoring (toggles LED & dry contacts)
- · Electrically isolated circuitry ensures surges do not damage diagnostics
- · Optional: Audible Alarm & Form C Dry Contact, (Contact rated 240V, 5A; leads are pre-wired through nipple with #18 AWG)

Quality, Standards & Validation

- UL 1449 Third Edition, (cUL Type 2 optional)
- UL file: VZCA.E321351 at www.UL.com
- RoHS-compliant
- IEC 61643, CE
- 10 year warranty
- Burn-In tested Prior to Shipment
- ISO 9001:2000 Quality Management System
- ISO 17025:2005 Laboratory Qualification
- · Made in USA



TEXCS Model Number Configurator & Options								
TE <u>02</u>	XCS	10	4X	, 	Α	Μ		
Voltage Code for Electrical System	Surge	Current Rati	ng	Options				
Common North American Systems: 01 = 240/120V Split Phase - 1Ø 3W+Grnd (Fig 1) 02 = 208Y/120V Wye - 3Ø 4W+Grnd (Fig 2) 03 = 240/120V High Leg Delta (B High) (Fig 3) 04 = 480Y/277V Wye - 3Ø 4W+Grnd (Fig 2) 05 = 480V Delta - 3Ø 3W+Grnd (Fig 4) & HRG Wye 08 = 600Y/347V Wye - 3Ø 4W+Grnd (Fig 2) Other Available Systems - Confirmation encouraged: 15 = 254/127V Split Phase - 1Ø 3W+Grnd (Fig 1) 18 = 480/240V Split Phase, or Two legs of Wye (Call) 21 = 220Y/127V Wye - 3Ø 4W+Grnd (Fig 2) 41 = 520Y/300V Wye - 3Ø 4W+Grnd (Fig 2) 42 = 415Y/240V Wye - 3Ø 4W+Grnd (Fig 2) 43 = 400Y(230V/Wye - 3Ø 4W+Grnd (Fig 2)	10 = 100kA/Phase			 A = Audible Alarm & Dry Contacts Form C, 240V, 5A (pre-wired) E = Remote Indicator LED on 6' Cable (pre-wired through nipple) 2 = Type 2 SPD bearing cUL Mark Delete Options - Consult Factory for Order Code Delete L-N Protection (reduces kA rating) Delete L-G Protection (reduces kA rating) Delete N-G Protection (reduces kA rating) Delete N-G Protection (reduces kA rating) Available Accessory (order separately) FMKITC = Flush Mount Kit RM = Remote Monitor 				
43 = 400Y/230V Wye - 3Ø 4W+Grnd (Fig 2) 44 = 440Y/250V Wye - 3Ø 4W+Grnd (Fig 2) 51 = 480V B Corner Grnd Delta, 3Ø 3W+Grnd (Fig 6) 06 = 240V Delta - 3Ø 3W+Grnd (Fig 4) 61 = 240V B Corner Grnd Delta, 3Ø 3W+Grnd (Fig 6) 07 = 380Y/220V Wye - 3Ø 4W+Grnd (Fig 2) 09 = 600V Delta - 3Ø 3W+Grnd (Fig 4) & HRG Wye 91 = 600V B Corner Grnd Delta, 3Ø 3W+Grnd (Fig 6)		ire Rating IEMA 4X Non-	Metallio	c (size 8" x	3"x 3")			

Figure 1 {}V Hot (BLK) {}V Neutral (WHT) Hot (BLK) Ground (GRN) =	Figure 2	Figure 3 Phase A (BLK) Phase B (ORNG) Phase C (BLK) Neutral (WHT) Ground (GRN)	Figure 4	Figure 5	Figure 6	
SPLIT 2 Hots, 1 Neu, 1 Grnd	WYE HI-LEG DELTA (B High nd 3 Hots, 1 Neu, 1 Grnd 3 Hots, (B HIGH), 1 Neu, 1 Grnd		DELTA & HRG WYE 3 Hots, 1 Gmd	SINGLE POLE 1 Hot, 1 Neu, 1 Gmd	CORNER GROUND DELTA (B grounded) 3 Hots, 1 Grnd	

Performance Data

11 = 120V Single Phase (Fig 5)

13 = 127V Single Phase (Fig 5)
14 = 300V Single Phase (Fig 5)
16 = 277V Single Phase (Fig 5)

12 = 240V Single Phase (Fig 5) - Not split phase

17 = 480V Single Phase (1 Hot, 1 Neu, 1 Grnd) (Fig 5)

Common Voltages		UL 1449 THIRD Edition (Sept 2009) Test Data Voltage Protection Ratings (VPR - 3kA)								
	L-N	L-G	N-G	L-L	Туре	In	SCCR	MCOV		
01 = 240/120V Split Phase	600	700	500	1000	Type 1	20kA	100kA	150		
02 = 208Y/120V 3Ø Wye	600	700	500	1000	Type 1	20kA	200kA	150		
03 = 240Y/120V B High Leg Delta	600/1200	700/1200	500	1000	Type 1	20kA	200kA	150/320		
04 = 480Y/277V 3Ø Wye	1200	1200	1000	1800	Type 1	20kA	200kA	320		
07 = 380Y/220V Wye	1200	1200	1000	1800	Type 1	20kA	200kA	320		
21 = 220Y/127V Wye	600	700	600	1000	Type 1	20kA	200kA	180		

Other Available Systems:

Please see supplementary data sheet, contact us at info@poglobal.com, or confirm at www.UL.com using CCN of VZCA

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