

**Features:**

- **UL 1449 Fourth Edition Listed**
- **150kA – 200kA per phase ratings**
- **All UL required OCP & Safety Coordination included inside**
 - Type 1 SPDs intended for Line or Load Side of Main Disconnect
 - Type 2 SPDs intended for Load Side of Main Disconnect
- **20kA Inominal (I_n)**
- **200kA SCCRs (most models)**
- **UL 96A Lightning Protection Master Label compliant**
- **Voltage Specific Design – Highly configurable**
- **All MOV suppression elements monitored**
- **All Modes of Protection**

Performance Specifications**Surge Capacities (L-N, L-G, N-G, L-L)****150kA Per Phase****200kA Per Phase**

- UL 1449 Fourth Edition Listed Type 1, CSA 22.2 No. 269.1
- Optional UL 1449-4 Type 2 SPD, UL 1283 Listed, CSA 22.2 No. 269.2
- UL 1449-4 tested Inominal (I_n): 20kA
- UL 1449-4 tested SCCR: 200kA & 100kA
- UL 1449-4 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
- AC Sinewave Tracking Filter with EMI/RFI Filtering up to -50dB from 10kHz to 100MHz (Type 2 option only, incl. UL 1283 Listing)

Physical Specifications

- Relative Humidity Range: 0 - 95% non-condensing
- Operating Frequency: 47 - 63Hz
- Peak Operating Temperature: +85°C (185°F)
- Operating Temperature: -25°C (-15°F) to +60°C (140°F)
- Weight: 5 lbs (2.3 kg)
- NEMA 4X Polycarbonate enclosure – UL 746C(f1) & UL 94-5VA
- Dimensions: 6" x 6" x 4" (152mm x 152mm x 102mm) (excluding removable mounting feet)
- Lug size: #8 - #10 AWG
- Typical connection: #8 AWG and 40A breaker

Design Features

- Designed, Manufactured & Tested consistent with:
 - ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, C62.62-2010 and C62.72-2007
 - NEMA LS-1
 - NEC® Article 285
 - IEC 61643, CE
- High Energy Parallel Design for Category C3 & C-High applications
- For External Mounting next to Switchgear, Motor Controls Centers or Panelboards
- Individually Fused & Thermally Protected MOVs
- Large-Block, 34mm square, 50kA MOVs
- Solid State Bidirectional Operation

Diagnostic Monitoring

- 100% monitoring – Every MOV is monitored, incl. N-G
- Green LED Status indicator per phase
- Red LED service indicator
- Phase Loss monitoring (toggles LED & dry contact)
- Electrically isolated circuitry ensures surges do not damage diagnostics
- Optional: Audible Alarm & Form C Dry Contact (Contact rated 240V, 5A)

Quality, Standards & Validation

- Type 1: UL 1449 Fourth Edition, CSA 22.2 No. 269.1
- Type 2 (Opt.): UL 1449 Fourth Edition, CSA No. 269.2, UL 1283
- UL file: VZCA.E321351 at www.UL.com
- RoHS-compliant
- IEC 61643, CE
- 10 year warranty (longer optional)
- Burn-In tested prior to shipment
- ISO 9001:2008 Quality Management System
- ISO 17025:2005 Laboratory Qualification



TE XDS Model Number Configurator & Options

TE 02 XDS 20 4X A M

Voltage Code for Electrical System

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 - 1 3W+Grnd (Fig 1)
- 18 = 480/277V 2-Pole, (480/240V Split Phase) (Fig 1)
- 21 = 220Y/127V Wye - 3 4W+Grnd (Fig 2)
- 41 = 520Y/300V Wye - 3 4W+Grnd (Fig 2)
- 42 = 415Y/240V Wye - 3 4W+Grnd (Fig 2)
- 43 = 400Y/230V Wye - 3 4W+Grnd (Fig 2)
- 44 = 440Y/250V Wye - 3 4W+Grnd (Fig 2)
- 51 = 480V B Corner Grnd Delta, 3 3W+Grnd (Fig 6)
- 06 = 240V Delta - 3 3W+Grnd (Fig 4)
- 61 = 240V B Corner Grnd Delta, 3 3W+Grnd (Fig 6)
- 07 = 380Y/220V Wye - 3 4W+Grnd (Fig 2)
- 09 = 600V Delta - 3 3W+Grnd (Fig 4) & HRG Wye
(Available: 100kA)
- 91 = 600V B Corner Grnd Delta, 3 3W+Grnd (Fig 6)
(Available: 100kA)
- 11 = 120V Single Phase (Fig 5)
- 12 = 240V Single Phase (Fig 5) - Not split phase
- 13 = 127V Single Phase (Fig 5)
- 14 = 300V Single Phase (Fig 5)
- 16 = 277V Single Phase (Fig 5)
- 17 = 480V Single Phase (1 Hot, 1 Neu, 1 Grnd) (Fig 5)

Surge Current Rating

- 15 = 150kA/Phase
- 20 = 200kA/Phase

Options

- A = Audible Alarm & Dry Contacts, Form C, 240V, 5A
- 2 = Type 2 SPD, incl. UL 1283 EMI/RFI Filters

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 Noise Filtering

Available Accessory (order separately)

- KITFMXF = Flush Mount Kit
- RM = Remote Monitor

Enclosure Rating

- 4X = NEMA 4X
Non-Metallic
(size 6" x 6" x 4")

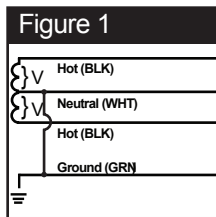


Figure 1
SPLIT
2 Hots, 1 Neu, 1 Grnd

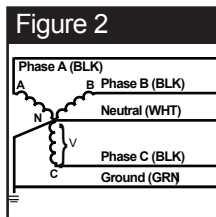


Figure 2
WYE
3 Hots, 1 Neu, 1 Grnd

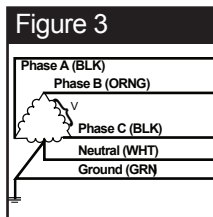


Figure 3
HI-LEG DELTA (B High)
3 Hots, (B HIGH),
1 Neu, 1 Grnd

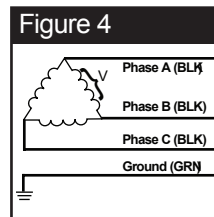


Figure 4
DELTA & HRG Wye
3 Hots, 1 Grnd

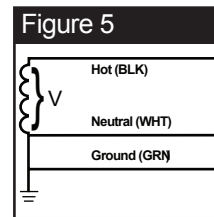


Figure 5
SINGLE POLE
1 Hot, 1 Neu, 1 Grnd

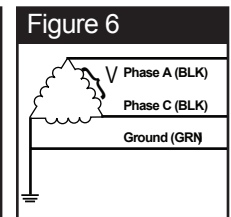


Figure 6
CORNER GROUND
DELTA (B grounded)
2 Hots, 1 Grnd

Performance Data

Common Voltages	UL 1449 Fourth Edition Test Data Voltage Protection Ratings (VPR - 3kA)				I _n	SCCR	MCOV
	L-N	L-G	N-G	L-L			
01 = 240/120V Split Phase	700	700	600	1000	20kA	100kA	150
02 = 208Y/120V 3Ø Wye	700	700	600	1000	20kA	200kA	150
03 = 240Y/120V B High Leg Delta	700/1200	700/1200	600	1000/2000	20kA	200kA	150 / 320
04 = 480Y/277V 3Ø Wye	1200	1200	1200	2000	20kA	200kA	320
07 = 380Y/220V Wye	1200	1200	1200	2000	20kA	200kA	320
21 = 220Y/127V Wye	700	1500	700	1200	20kA	200kA	180

Other Available Systems:

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



DISTRIBUIDOR AUTORIZADO

www.secovi.com

Tel. (81) 8333 8788
01 800 273 2684
email: informes@secovi.com