

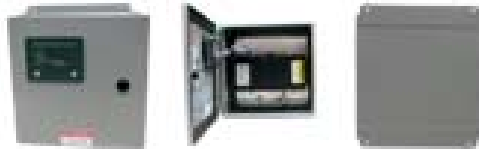
Surge Protective Device

Technical Documentation



ACCESSORY SOLD SEPARATELY

With surge current levels of 100kA, 150kA, 200kA, 250kA, 300kA, 400kA and 500kA per phase, our XAS Series is the Surge Protective Device that covers most current surge protector needs. With one replaceable module per unit containing Large Block 50kA Thermal Protected MOV's, this unit's low cost, reliability, flexibility and robustness is the best solution for any environment large or small.



Key Specs

- **100kA - 500kA per phase rating**
- **All UL required OCP & Safety Coordination included**
- **20kA Inominal (most models)**
- **20kA SCCR's (most models)**

**See Ordering Information for model number selection*

Features

- UL 96A Lightning Protection Master Label compliant
- Voltage Specific Design Highly configurable
- All MOV suppression elements monitored
- Optional Rotary Disconnect Switch

Certifications

- UL 1449

General Technical Specifications

Surge Capacities	L-N	L-G	N-G	L-L
100kA Per Phase	50kA	50kA	50kA	100kA
150kA Per Phase	100kA	50kA	50kA	150kA
200kA Per Phase	100kA	100kA	100kA	200kA
250kA Per Phase	150kA	100kA	100kA	250kA
300kA Per Phase	150kA	150kA	150kA	300kA
400kA Per Phase	200kA	200kA	200kA	400kA
500kA Per Phase	250kA	250kA	250kA	500kA
Response Time	< 1 nanosecond			
Repetitive Implulse	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)				



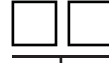
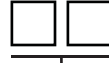
DANGER!

Only qualified personnel should install or service this system. Electrical safety precautions must be followed when installing or servicing this equipment. To prevent risk of electrical shock, turn off and lock out all power sources to the unit before making electrical connections or servicing.

TE



XAS



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
 (450kA replaces 400kA or 500kA)
 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 = 480/277V 2-Pole, (480/240V Split Phase) (Fig 1)
 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)
 44 = 440Y/250V Wye - 3Ø 4W+Grnd (Fig 2)
 51 = 480V B Corner Grnd Delta, 3Ø 3W+Grnd (Fig 6)
 (450kA replaces 400kA or 500kA)
 06 = 240V Delta - 3Ø 3W+Grnd (Fig 4)
 (450kA replaces 400kA or 500kA)
 61 = 240V B Corner Grnd Delta, 3Ø 3W+Grnd (Fig 6)
 (450kA replaces 400kA or 500kA)
 07 = 380Y/220V Wye - 3Ø 4W+Grnd (Fig 2)
 09 = 600V Delta - 3Ø 3W+Grnd (Fig 4) & HRG Wye
 (Available: 100kA, 150kA, 200kA, 250kA)
 91 = 600V B Corner Grnd Delta, 3Ø 3W+Grnd (Fig 6)
 (Available: 100kA, 150kA, 200kA, 250kA)
 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

10 = 100kA/Phase
 15 = 150kA/Phase
 20 = 200kA/Phase
 25 = 250kA/Phase
 30 = 300kA/Phase
 40 = 400kA/Phase
 45 = 450kA/Phase
 (Voltage Codes 05, 51, 06 & 61)
 50 = 500kA/Phase

Options

X = Surge Counter, six-digit LCD counter includes maintenance-free Eprom memory backup
 E = Remote Locatable Display on 4 ft Cable custom cable lengths available
 F = Noise Filtering - Extended Range & Attenuation (available on 400kA & 500kA models)
 D = Rotary Disconnect Switch, ABB, UL98
 T = Thru-Door Rotary Disconnect Switch, ABB, UL98, E1 enclosure only
 (Consult factory for other disconnect switch options)
 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)
 RM = Remote Monitor

Enclosure Rating

E1 = NEMA 1/12/3R/4 (size: 12" x 12" x 7")
 4X = NEMA 4X Non-Metallic (size: 14" x 12"x 6")
 (polycarbonate, display inside clear front door)
 4S = NEMA 4X Stainless Steel (size: 12" x 12"x 6")
 (display inside door)
 FM = NEMA 1 Flush Mount (wall cavity size: 12" x 12"x 6" deep)
 P1 = NEMA 1 pullbox 'indoor' (size: 12" x 12" x 6") includes 'E' option
 (Optional rotary disconnect increases enclosure sizes to 16" x 14" x 6" on models > 300kA)

Performance Data

Common North American Systems	UL 1449 Fourth Edition Test Data						
	Voltage Protection Ratings (VPR - 3kA)						
	L-N	L-G	N-G	L-L	I _n	SCCR	MCOV
01 = 240/120V Split Phase (<300kA)	700	700	700	1200	20kA	100kA	150
01 = 240/120V Split Phase (=>300kA)	700	600	600	1000	20kA	100kA	150
02 = 208Y/120V 3Ø Wye (<300kA)	700	700	700	1200	20kA	200kA	150
02 = 208Y/120V 3Ø Wye (=>300kA)	700	600	600	1000	20kA	200kA	150
03 = 240Y/120V B High Leg Delta	700/1200	700/1200	700	1800	20kA	200kA	150 / 320
04 = 480Y/277V 3Ø Wye (<300kA)	1200	1200	1200	2000	20kA	200kA	320
04 = 480Y/277V 3Ø Wye (=>300kA)	1200	1000	1000	1800	20kA	200kA	320
05 = 480V 3Ø Delta (<300kA)	-	1800	-	1800	10kA	200kA	550
05 = 480V 3Ø Delta (=>450kA)	-	1800	-	1800	20kA	200kA	550
07 = 380Y/220V 3Ø Wye (<300kA)	1200	1200	1200	2000	20kA	200kA	320
08 = 600Y/347V 3Ø Wye (<300kA)	1500	1500	1500	2500	10kA	200kA	420
08 = 600Y/347V 3Ø Wye (=>300kA)	1500	1500	1500	2500	20kA	200kA	420

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