

# ACT Surge Stryker 453 Family

A Wall Mounted Surge Protection Device



▶ The Full Featured ACT Surge Stryker 453 Family is a high performance surge protector designed for critical panel locations. The SPD incorporates high-energy MOVs with the optional EMI/RFI noise filtering to provide protection against transients originating from induced lightning strikes and utility switching.

Real time diagnostics include LED fault indicators for each phase and optional Form C dry contacts for remote indication allows the customer to always know the ACT 453 is at full capacity.

Housed in a rugged NEMA 12 enclosure these indoor devices are suitable for harsh indoor or covered applications. The ACT 453 Family is available for all voltages and configurations up to 480Vac with per mode surge ratings from 50kA to 100kA and is available with remote signaling contacts and filtering that removes noise down to -40dB.

## ▶ RECOMMENDED LOCATION

- Cell Sites, Well Pumps / Cat C
- Distribution Equipment / Cat B
- Branch Panels / Cat B
- Point of Use / Cat A
- Residential / Cat C

## ▶ FEATURES AND BENEFITS

- 4 Modes of Discrete Protection (L-N, N-G)
- 10 Modes of Protection (L-N, L-G, N-G, L-L)
- Green Status indicating Lights per phase
- NO/NC Form C Dry Contact option for remote monitoring
- Optional Filter removes noise down to -40dB @ MHz
- Individually Fused MOV Technology
- 2 -Year Standard Warranty

## ▶ STANDARDS MET

- Listed by ETL for UL 1449 5th Edition
- Safety - Meets UL 1283 when filter is installed
- ANSI/IEEE C62.41, C62.45
- ANSI/NFPA 70 National Electrical Code

## ▶ 3RD PARTY TESTED

- ACT 453 is tested in all modes at rated currents by independent testing facilities
- Repetitive surge testing per IEEE C62.41.2 C3 combination without any degradation of more than 10% deviation. Greater than 10,000 impulses\*
- NEMA LS-1 Tested

# ACT TransShield 453 Family

A Wall Mounted Surge Protection Device

## TECHNICAL INFORMATION

### MECHANICAL SPECIFICATIONS

Dimensions	8"H X 6"W X 3.5"D
Weight	7.5 lbs.
Enclosure	NEMA 4
Operating Temp	-40C to +65C
Non-condensing Humidity	5% to 95%



### ELECTRICAL SPECIFICATIONS

Connection Method	Parallel
Protection Modes (10Modes)	L-N, L-G, L-L, N-G
Discrete Protection	L-N, N-G
Pre-Wired	36" stranded #10 AWG
Status Indicators	Green LED
Optional Alarm Relay Contacts	Form C NC & NO
Optional filter	-40dB noise reduction

**EXAMPLE:** ACT 453-120S-100 or ACT 453-277Y-080-R-F

**OPTIONS:**

kA rating	50kA	050
	80kA	080
	100kA	100

Alarm Relay Contacts	Form C NC & NO – R
EMI/Noise Filter	EMI/Noise Filter (>-40db) – F
Top Fed	Cables oriented from top – T

Part Number 453-Voltage-kA Rating-Options	Configuration	VPR (Voltage Protection Rating)				MCOV
		L-N	L-G	N-G	L-L	
453-120-XXX	120Vac, 1ph, 2W+G	700	1200	700	1000	150
453-120S-XXX	120/240Vac, 1ph, 3W+G, Split Phase	700	1200	700	1000	150
453-120Y-XXX	120/208Vac, 3ph, 4W+G, Wye	700	1200	700	1000	320
453-220Y-XXX	220/380Vac, 3ph, 4W+G, Wye	1000	1800	1000	1800	150
453-240-XXX	240Vac, 1ph, 2W+G	1000	1800	1000	1800	320
453-240H-XXX	120/220/240Vac, 3ph, 4W+G, Hi-Leg	700/1000	2000	1000	1000/1800	150/320
453-240Y-XXX	240/415Vac, 3ph, 4W+G, Wye	1000	1800	1000	1800	320
453-240D-XXX	240Vac, 3ph, 3W+G, Delta	-	1000	-	1800	320
453-277Y-XXX	277/480Vac, 3ph, 4W+G, Wye	1000	1800	1000	1800	320
453-480-XXX	480Vac, 1ph, 2W+G	1800	3200	1800	3000	575
453-480D-XXX	480Vac, 3ph, 3W+G, Delta	-	1800	-	3000	575