

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

- Safety – Listed for UL 1449 4th 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

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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 |