

# AC SURGE PROTECTOR SURGITRON® I

MODELS 1455-45, 1455-80, 1455-85  
208Y/120V, 3 $\phi$ , 4 Wire + Ground

- SPD Category and Type Service entrance or distribution panel, permanently connected.  
All models are suitable for U.S. service entry / main switchboard applications. Model 1455-80 is recommended for sub-panels or for service entry when TNS neutral grounding is practiced.
- Technology Matrix of individually fused metal oxide varistors housed in replaceable modules.
- Features Cover LEDs indicate status of modules. Models 1455-80/85 have relay contacts for remote monitoring.
- Options Stainless steel NEMA 4X cabinet: add **-4X** to model number. Surge Event Counter: add **-S** to model no. Remote Monitor and Audible Alarm: separately order P/N 1260-97.
- Connection Means In parallel (shunt) directly across mains or through 60 A (min) switch or breaker.
- Cable Size for Connections, contractor supplied AWG 4 - 2/0
- Upstream Overcurrent Device None required
- Internal Overcurrent Protection 200 kAIC
- Maximum Continuous Operating Voltage, L-N, 50 or 60 Hz 138 Vac
- Protection Modes 1455-45, 1455-85 L-N, N-G  
1455-80 L-N, L-G, N-G
- Varistor MCOV 150 Vac
- Nominal Varistor Voltage at 1 mAdc 240 V
- Leakage, L-G at 120 Vac <1000  $\mu$ A
- Maximum Surge Current, Single Pulse, 8/20  $\mu$ s, per phase per mode 120 kA  
60 kA
- Suppression Voltage, L-(N+G) 200 A, 100 kHz (6 kV) 470 V  
using ANSI/IEEE C62.41 Waveshapes 500 A, 100 kHz (6 kV) 500 V  
500 A, 8/20  $\mu$ s (6 kV) 380 V  
3 kA, 8/20  $\mu$ s (6 kV) 480 V  
10 kA, 8/20  $\mu$ s (20 kV) 680 V  
20 kA, 8/20  $\mu$ s (20 kV) 1100 V
- UL 1449 Suppression Voltage, L-N, L-G, N-G 400 V
- Surge Energy Capability, 10/1000  $\mu$ s, total 8620 joules
- Surge Life, L-(N+G), 120 Vac applied 3 kA, 8/20  $\mu$ s 200,000 times  
10 kA, 8/20  $\mu$ s 6,000 times  
20 kA, 8/20  $\mu$ s 500 times
- Relay Contacts (1455-80/85), dual Form C (DPDT) minimum 1 mA, 5 Vdc; maximum 5 A, 240 Vac or 28 Vdc
- Component Response Time <1 ns
- Operating Temperature -40 to +85 C
- Max Operating Altitude 5000 meters
- Shipping Weight 13 kg
- Warranty 5 years
- Safety Approvals: UL and cUL Listed per UL1449 and Canadian codes, File No. E74944  
 **RUS** USDA-RUS Accepted, Section gi, 5.5.2

