


# AC SURGE PROTECTOR SURGITRON® I

## MODEL 1451-85

440-480V 3 $\phi$ , 3 Wire  
UNGROUND DELTA

# JOSLYN

## TECHNICAL DATA

- SPD Category and Type Service entrance or distribution panel, permanently connected.
- Technology Matrix of individually fused metal oxide varistors housed in replaceable modules.
- Features Cover LEDs indicate status of modules. Form C relay contacts for remote monitoring.
- Options Surge Event Counter: add **-S** to model number; for stainless steel NEMA 4X cabinet: add **-4X**.
- 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
- Maximum Continuous Operating Voltage, L-L, 50 or 60 Hz 550 Vac
- Leakage, L-G at 480 Vac <2000  $\mu$ A
- Maximum Surge Current, Single Pulse, 8/20  $\mu$ s, per mode 120 kA
- Protection Modes L-L, L-G
- Varistor MCOV 550 Vac
- Nominal Varistor Voltage at 1 mAdc 925 V
- Suppression Voltage 200 A, 100 kHz (6 kV) 1350 V
- using ANSI/IEEE C62.41 Waveshapes 500 A, 100 kHz (6 kV) 1410 V
- 500 A, 8/20  $\mu$ s (6 kV) 1310 V
- 3 kA, 8/20  $\mu$ s (6 kV) 1350 V
- 10 kA, 8/20  $\mu$ s (20 kV) 1800 V
- 20 kA, 8/20  $\mu$ s (20 kV) 2200 V
- UL 1449 Suppression Voltage 1500 V
- Surge Energy Capability, 10/1000  $\mu$ s, total 41,280 joules
- Surge Life, L-G 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, dual form C (DPDT) minimum load 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 15 kg
- Warranty 5 years
- Safety, Approvals: UL Listed per UL1449 and Canadian codes, File E74944  
 **RUS** USDA-RUS Accepted, Section gi, 5.5.2

