

AC SURGE PROTECTOR SURGITRON® I

MODELS 1456-85-M, 1456-85-MN

480Y/277V, 3 ϕ , 4 Wire + Ground

- SPD Category and Type Service entrance or distribution panel, permanently connected.
- Technology 1456-85-**M** is recommended for installation close to service entry where neutral is grounded. 1456-85-**MN** can be employed on feeder circuits and subpanels as well.
- Features Matrix of individually fused metal oxide varistors housed in replaceable modules. Includes secondary, back-up protection modules for each phase to ensure of continued protection until maintenance can be scheduled. LED's on cabinet front cover indicate the functional status of modules. Primary modules are additionally monitored with alarm relays.
- Options Stainless steel NEMA 4X cabinet: add **-4X** to model number.
Surge Event Counter: add **-S** to model number.
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
- Maximum Continuous Operating Voltage, L-N, 50 or 60 Hz 293 Vac
- Protection Modes 1456-85-M L-N
1456-85-MN L-N N-G
- Varistor MCOV, Primary/Secondary 300/550 Vac
- Nominal Varistor Voltage at 1 mAdc, Primary/Secondary 470/910 V
- Leakage, L-G at 120 Vac <750 μ A
- Maximum Surge Current, Single Pulse, 8/20 μ s, per line 200 kA
- Suppression Voltage, L-N, N-G 750 V
- using ANSI/IEEE C62.41 Waveshapes 500 A, 100 kHz (6 kV) 800 V
500 A, 8/20 μ s (6 kV) 685 V
3 kA, 8/20 μ s (6 kV) 790 V
10 kA, 8/20 μ s (20 kV) 950 V
20 kA, 8/20 μ s (20 kV) 1270 V
- UL 1449 Suppression Voltage, L-N, N-G 700 V
- Surge Energy Capability, 10/1000 μ s, total 41,280 joules
- Surge Life, L-N, 277 Vac applied 3 kA, 8/20 μ s 40,000 times
10 kA, 8/20 μ s 6,000 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 Edit. 2, XUHT, File No. E74944
cUL Certified per Canadian codes, XUHT7, File E74944

