



## Hardwire AC Surge Protection

### M100



*Citel's M100 Series is specification grade surge protection for service entrance or critical branch panels. The SPD is available for all your single and three phase applications up to 480Vac.*

*With 100,000 amps of surge handling capacity and EMI/RFI noise filtering, the M100 Series is a rugged yet refined SPD. Equipped with real-time LED fault indicators, remote contacts, audible alarm and abnormal N-G voltage detection this device provides much more power quality information than your typical TVSS.*

*For ease of application, the M100 Series is approved to the most stringent and widely recognized safety standards such as UL, cUL, IEC and CE.*

#### AC Panel Protection

- 100kA transient amps protection (8/20 $\mu$ s)
- All modes of protection
- Full On-Board Diagnostics— LED indicators, remote & audible alarms.
- 200kAIC Fault Current Rated
- Integral Fused Disconnect
- EMI/RFI Noise Filtering
- NEMA 4 enclosure
- 10-Year warranty

#### Characteristics

|                         |                     |
|-------------------------|---------------------|
| Imax                    | 100kA/phase         |
| Protection Modes        | L-N, L-G, N-G, L-L  |
| EMI/RFI Noise Rejection | Yes                 |
| LED Indicators          | Yes                 |
| Audible Alarm           | Yes                 |
| Remote Signalling       | Form C dry contacts |
| Connecting Wire Size    | #10 AWG, 36" Leads  |
| Response Time           | <5 nanoseconds      |
| Dimensions              | 8" x 6" x 3.5"      |
| Enclosure               | NEMA 4, Metal       |
| Weight                  | 6lbs                |

#### Standards & Guidelines

|                     |               |
|---------------------|---------------|
| UL 1449 2nd Edition | USA           |
| IEC 61643-11        | International |
| ANSI/IEEE C62.41    | USA           |
| NFC 61740-95        | France        |
| VDE0675-6           | Germany       |
| CSA C22.2           | Canada        |
| CE Marked           | European      |

| Model       | Configuration                      |
|-------------|------------------------------------|
| M100-120T   | 120/240Vac, 1ph, 3W+G, split phase |
| M100-120Y   | 120/208Vac, 3ph, 4W+G, wye         |
| M100-220Y   | 220/380Vac, 3ph, 4W+G, wye         |
| M100-240Y   | 240/415Vac, 3ph, 4W+G, wye         |
| M100-240DCT | 120/120/240Vac, 3ph, 4W+G, hi-leg  |
| M100-277Y   | 277/480Vac, 3ph, 4W+G, wye         |
| M100-480D   | 480Vac, 3ph, 3W+G, delta           |

| UL1449 500A |      |      |      | Joules     | MCOV     |
|-------------|------|------|------|------------|----------|
| L-N         | L-G  | N-G  | L-L  | (10/100us) |          |
| 400         | 400  | 500  | 800  | 2,730j     | 150V     |
| 400         | 400  | 500  | 800  | 2,730j     | 150V     |
| 1000        | 1000 | 1000 | 1800 | 4,690j     | 320V     |
| 1000        | 1000 | 1000 | 1800 | 4,690j     | 320V     |
| 400         | 400  | 1000 | 1800 | 3,290j     | 150/320V |
| 1000        | 1000 | 1000 | 1800 | 4,690j     | 320V     |
| -           | 1500 | -    | 3000 | 11,410j    | 550V     |