

## High-Energy AC Surge Protection Module

### DS150E



Citel's DS150E line of AC surge protection modules are designed for high exposure applications such as direct lightning strikes, capacitor bank switching, and large inductive loads. With its single pole design, it offers the user unmatched flexibility when installing into different system packages and voltage configurations. Many OEM's utilize the rugged DS150E modules as their protection component of choice for mission critical equipment.

#### Applications

- Service entrance and distribution panels
- Control panels feeding VSDs, PLCs, etc.
- Distribution panels feeding heavy loads
- Lighting panels

#### 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

#### System Module Requirements

1 phases	DS150E x 1
2 phases	DS150E x 2
3 phases	DS150E x 3
Neutral to Ground	DS100EG x 1

\*If protection is located more than 6' from service entrance N-G bond then add protection between N-G mode.

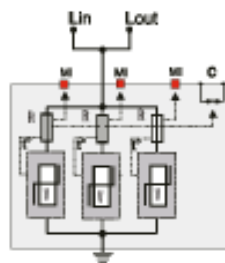
#### Optional Fuseholders

US3J1	Single phase
US3JN	Neutral
US3J3N	Three phase + neutral

#### OEM AC Surge Protection

- 165kA transient amps protection (8/20 $\mu$ s)
- 15kA transient amps protection (10/350 $\mu$ s)
- Multi-redundant protection circuit
- Triple stage fault indicators and remote alarm
- 35mm DIN Rail mounting
- 10-Year warranty
- Available in NEMA 4/12 enclosure

#### Electrical Diagram



V: High-energy varistor  
 Ft: Thermal fuse  
 C: Remote signaling contact  
 t°: Thermal disconnection  
 MI: Disconnection indicator

#### Specifications

Citel Model DS150E	-120	-300	-400	-480
System Voltage	120Vac	220Vac 240Vac	277Vac 347Vac	480V
MCOV	150V	330V	440V	550V
Ipeak 8/20 $\mu$ s	165kA	165kA	165kA	165kA
ClampV @ 10kA	445V	740V	1170V	1295V
ClampV @ 500A	385V	645V	925V	1135V
Diagnostics	Triple stage fault indicator and remote alarm.			
Housing Materials	Polycarbonate UL94-V0			
Operating Temperature	-40°C to +85°C			
Operating Altitude	13,000 ft (400m)			
Connection Method	Parallel			
Protection Type	MOV based			
Connection	screw terminals, AWG #2 - 12			
Bubars Options	2-pole, 3-pole, 4-pole, 3+1			
Protection Modes	L-N; L-G; N-G; L-L			
Dimensions	90Hx36Wx67D (in mm)			