High-Energy AC Surge Protection Module

DS100EG

The DS100EG spark gap is designed to be used with the DSx50E or DSx50VG surge protection modules to provide common and differential surge protection for AC power networks described in ANSI/IEEE C62.41, IEC-61643-11, and VDE 0675-6/A2. The device is UL1449 2nd listed and is connected between neutral (N) and ground (G/PE) wires.

The DS100EG incorporates CITEL's P100 high energy gas tubes which offer much lower clamping voltages than "air" spark gap technology while maintaining very large surge handling capability on either the 10/350µs or 8/20µs waveforms.It is mechanically similar to the DS250E and DS150E series making it easy to use both products jointly.

OEM AC Surge Protection

- 150kA transient amps protection (8/20µs)
- 60kA transient amps protection (10/350µs)
- N-G protection coordinated with DSx50E and DSx50VG based protection modules.
- 35mm DIN Rail mounting
- 10-Year warranty

Electrical Diagram

GDT: Heavy-energy spark gap

Specifications

Citel Model DS100EG	-350	-600
System Voltage	120/208V 120/240V	220/380V 240/415V 240V 277/480V
MCOV	150V	250V
DC Sparkovervoltage	200-500V	400-800V
Ipeak 10/350µs	45kA	45kA
ClampV @ Ipeak	1500V	1500V
Leakage Current	< 100 µA	< 100 µA
Follow Current	Yes	Yes

Housing Materials	Polycarbonate UL94-5VA
Operating Temperature	-40°C to +85°C
Operating Altitude	13,000 ft (400m)
Connection Method	Parallel
Protection Type	GDT based
Connection	screw terminals, 2.5-50mm²
Protection Modes	N-G
Dimensions	90Hx36Wx67D (in mm)

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

Citel, Inc. 1515 N.W. 167th St, Suite 5-223 Miami, FL 33169 USA
(800) 248-3548 ♦ Tel. (305) 621-0022 ♦ Fax (305) 621-0766
www.citelprotection.com ♦ info@citelprotection.com