

## DIN RAIL AC Surge Protection for Local and Control Panels

### DS40 Series



Citel's DS40 surge protectors are used mainly for distribution panels of single-phase and three-phase networks. They provide common-mode protection (between the active conductors and ground) and are available with an option remote alarm.

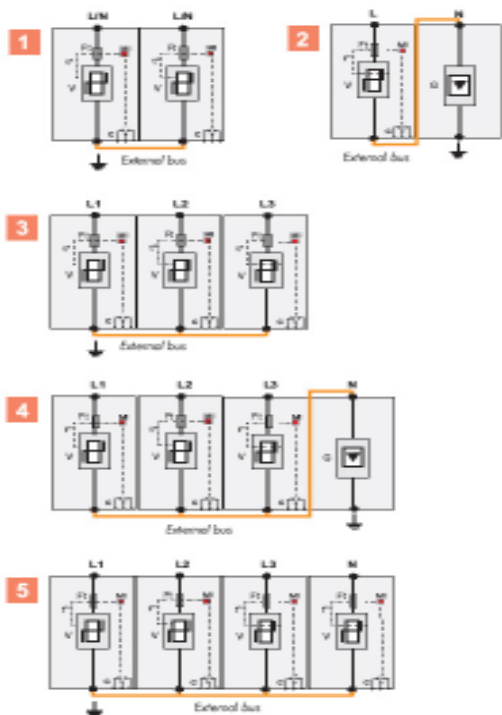
The DS40 is built with a plug-in module and a fixed base, which allows for easy access to protection modules.

Approvals - UL1449, IEC61643-11, ANSI/IEEE C62.41, NFC61740-95, VDE0675-6, CSA C22.2, CE Marked

#### Characteristics

Electrical Specifications	-120	-230	-320	-400	-480
Max. operating voltage	150V	255V	320V	440V	550V
I <sub>peak</sub> 8/20us (I <sub>max</sub> )	40kA	40kA	40kA	40kA	40kA
Nominal Discharge (I <sub>n</sub> )	20kA	20kA	20kA	20kA	20kA
15 x 8/20us impulse					
Clamp Voltage	400V	700V	800V	1200V	1800V
500A 8/20uS					
Clamp Voltage	500V	900V	1000V	1800V	2100V
10kA 8/20uS					
Operating Current < 1mA	<1mA	<1mA	<1mA	<1mA	<1mA
Leakage current at U <sub>c</sub>					
<b>Associated disconnection devices</b>					
Thermal disconnector	internal				
Fuses	30A-125A, J Class Time-delayed				
<b>Mechanical Specifications</b>					
Connection	Screw Terminal 4-25mm <sup>2</sup> /by bus				
Oper. Temp.	-40/+85 degree C				
Oper. Altitude	13,000ft (3,000m)				
Enclosure	IP20				
Housing Material	UL94-V0 Thermoplastic				
Mounting	DIN RAIL 35mm symmetrical				
Wire Size	#6-12 AWG				
Torque	4.25Nm wire terminals, 0.25Nm remote terminals				

#### Wiring Schematics



#### Ordering information

DS44S-120/G

- <> = CT1 configuration Common Mode
- <G> = CT2 Common + Differential Mode
- Operating Voltage = 120,230,320,480
- <S> = Remote Signaling
- Number of protected poles
- I<sub>peak</sub> = <1> 10kA; <4> 40kA; <7> 70kA
- <DS> = Plug-in
- <DU> = Monoblock, non-replaceable

#### Additional Order Information

- N-G Module for CT2 connection is Part # DS40G-350 or DS40G-600
- Accessory busbars part # 2P18, 1+1P18, 3P18, 3+1P18, 4P18



#### Dimensions

