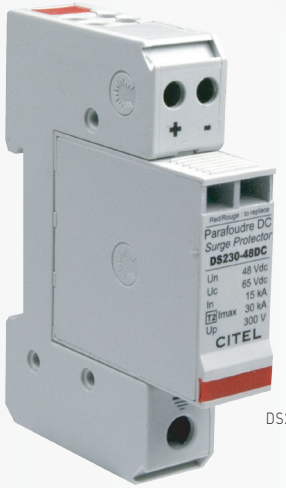
Multi-Pole DC or AC Power Surge Protectors
DS2x0-xxDC Series

Imax 20-40 kA



DS230-48DC

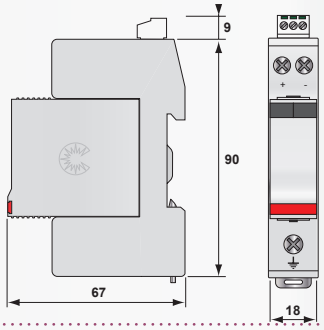
- **Type 2 DC or AC Power Surge Protector**
- **Imax : 20 - 40 kA at 8/20 µs**
- **Voltage from 12 to 350 Vdc**
- **Voltage from 20-350 Vac**
- **Slim 18 mm Form Factor**
- **Individual Fault Indicator Windows**
- **UL 1449 3rd Edition Recognized**

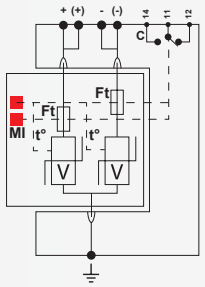
DS2xx S-xxxDC

- DC operating voltage (12, 24, 48, 75, 95, 110, 130, 220, 280, 350)
- Remote signal option
- Maximal discharge current

Dimensions and Electrical Diagram

(in mm)





C: Remote signaling contact
V: Varistor
Ft: Thermal fuse
t°: Thermal disconnection system

Characteristics

CITEL Part Number		DS220S-12DC	DS220S-24DC	DS230S-48DC	DS240S-75DC	DS240S-95DC	DS240S-110DC	DS240S-130DC	DS240S-220DC	DS240S-280DC	DS240S-350DC
Nominal DC voltage	Un	12 Vdc	24 Vdc	48 Vdc	75 Vdc	95 Vdc	110 Vdc	130 Vdc	220 Vdc	280 Vdc	350 Vdc
Maximum DC operating voltage	Uc	24 Vdc	38 Vdc	65 Vdc	100 Vdc	125 Vdc	150 Vdc	180 Vdc	275 Vdc	350 Vdc	460 Vdc
Maximum AC operating voltage	Uc	20 Vac	30 Vac	50 Vac	75 Vac	95 Vac	115 Vac	150 Vac	210 Vac	275 Vac	350 Vac
Nominal discharge current	In	10 kA	10 kA	15 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Maximal discharge current	Imax	20 kA	20 kA	30 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
Protection level at In	Up-In	250 V	250 V	300 V	390 V	450 V	500 V	620 V	900 V	1200 V	1400 V
Voltage protection rating	Vpr	330 V	330 V	330 V	400 V	-	-	600 V	-	-	-
Associated Disconnection Devices											
Thermal disconnectors		internal	internal	internal	internal	internal	internal	internal	internal	internal	internal
Fuses (if necessary)		20A gG	20A gG	20A gG	50A gG	50A gG	50A gG	50A gG	50A gG	50A gG	50A gG
Mechanical Characteristics											
Dimensions		See diagram									
Wiring to network		By screw terminals 1.5-10mm² (active wires) and 2.5-25mm² (ground)									
Disconnection indicator		2 mechanical indicators									
Replacement module		Pluggable module DSM2x0-xxDC									
Remote signalling		Option (DS2x0S-xxDC) - output on changeover contact									
Mounting		Symmetrical rail									
Operating temperature		-40/+85°C									
Protection class		IP 20									
Housing material		Thermoplastic UL94-V0									
Standards Compliance											
IEC 61643-11: International		Low voltage SPD - Test Class II									
EN 61643-11 : Europe		Low voltage SPD - Test Class II									
UL 1449 3rd Edition: USA		Type 4, for use in Type 2 locations									
Part Number											
		390111	390511	390411	310611	310311	310711	310811	310211	310511	310911

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CITEL