

Multi-Pole DC or AC Power Surge Protectors

DS2x0-xxDC Series

I_{max}
20-40 kA



DS230-48DC

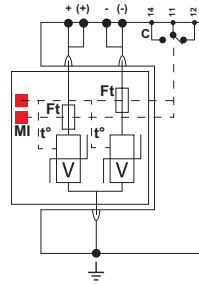
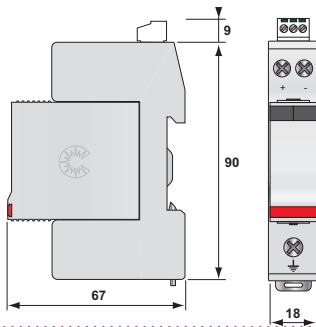
- **Type 2 DC or AC Power Surge Protector**
- **I_{max} : 20 - 40 kA at 8/20 μs**
- **Voltage from 12 to 350 Vdc**
- **Voltage from 20-350 Vac**
- **Slim 18 mm Form Factor**
- **Individual Fault Indicator Windows**
- **UL 1449 3rd Edition Recognized**

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	10 kA	15 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Maximal discharge current	I _{max}	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	internal
Fuses (if necessary)	20A gG	20A gG	20A gG	50A 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 1.5-10mm ² (active wires) and 2.5-25mm ² (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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