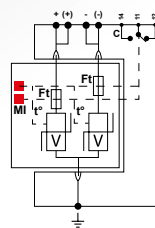
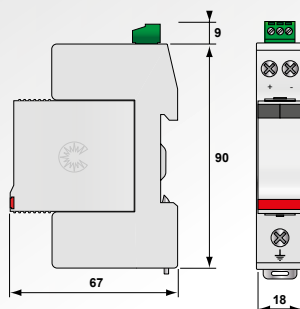


DC power surge protector DS2x0-xxDC series

**Imax
20-40 kA**



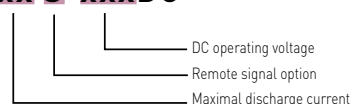
DS230-48DC



C: Remote signalling contact
V: Varistor
Ft: Thermal fuse
t°: Thermal disconnection system
MI: Disconnection indicators

- From 12 to 350 Vdc
- Very low Up protection level
- Compact design
- I_{max}: 20 to 40 kA
- Pluggable module
- Remote signaling (option)

DS2xx S-xxxDC



Characteristics

CITEL Model	DS220-12DC	DS220-24DC	DS230-48DC	DS240-75DC	DS240-95DC	DS240-110DC	DS240-130DC	DS240-220DC	DS240-280DC	DS240-350DC
Description	DC or PV power surge protector									
Network	12 Vdc	24 Vdc	48 Vdc	75 Vdc	95 Vdc	110 Vdc	130 Vdc	220 Vdc	280 Vdc	350 Vdc
Connection mode	+/-/PE	+/-/PE	+/-/PE	+/-/PE	+/-/PE	+/-/PE	+/-/PE	+/-/PE	+/-/PE	+/-/PE
Protection mode(s)	CM	CM	CM	CM	CM	CM	CM	CM	CM	CM
Max. DC operating voltage	Uc	24 Vdc	38 Vdc	65 Vdc	100 Vdc	125 Vdc	150 Vdc	180 Vdc	275 Vdc	460 Vdc
Max. AC operating voltage	Uc	20 Vac	30 Vac	50 Vac	75 Vac	95 Vac	115 Vac	150 Vac	210 Vac	350 Vac
Residual current - Leakage current at U _c	I _{pe}	< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA
Max. Load current (if connection serie)	IL	20 A	20 A	20 A	20 A	20 A	20 A	20 A	20 A	20 A
Nominal discharge current - 15 x 8/20 μs impulses	I _n	10 kA	10 kA	15 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Max. discharge current - max. withstand @ 8/20 μs by pole	I _{max}	20 kA	20 kA	20 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
CM Protection level @ I _n	U _p	250 V	250 V	300 V	390 V	450 V	500 V	620 V	900 V	1400 V
Associated disconnectors										
Thermal disconnector	internal									
Fuses (if required)	Fuses type gG - 20 A	Fuses type gG - 20 A	Fuses type gG - 50 A	Fuses type gG - 50 A	Fuses type gG - 50 A	Fuses type gG - 50 A	Fuses type gG - 50 A	Fuses type gG - 50 A	Fuses type gG - 50 A	Fuses type gG - 50 A
Mechanical characteristics										
Dimensions	see diagram									
Connection to Network	by screw terminals: 1.5-10mm ² (actives wires) and 2.5-25mm ² (ground)									
Disconnection indicator	2 mechanical indicators									
Remote signaling of disconnection	Option DS220S-12DC : output on changeover contact	Option DS220S-24DC : output on changeover contact	Option DS230S-48DC : output on changeover contact	Option DS240S-75DC : output on changeover contact	Option DS240S-95DC : output on changeover contact	Option DS240S-110DC : output on changeover contact	Option DS240S-130DC : output on changeover contact	Option DS240S-220DC : output on changeover contact	Option DS240S-280DC : output on changeover contact	Option DS240S-350DC : output on changeover contact
Spare unit	DSM220-12DC	DSM220-24DC	DSM230-48DC	DSM240-75DC	DSM240-95DC	DSM240-110DC	DSM240-130DC	DSM240-220DC	DSM240-280DC	DSM240-350DC
Mounting	Symmetrical rail 35 mm (EN60715)									
Operating temperature	-40/+85°C									
Protection rating	IP20									
Housing material	Thermoplastic UL94-V0									
Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.4/EN 50539-11									
Part number	390101	390501	390401	310601	310301	310701	310801	310201	310501	310901

