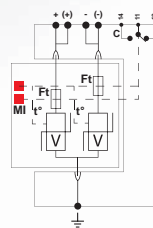
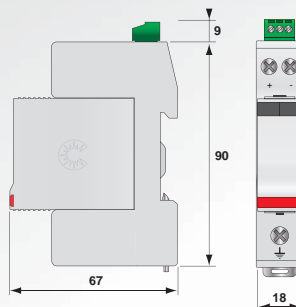


DC power surge protector DS2x0-xxDC series



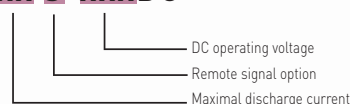
DS230-48DC



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 power surge protector										
Network	DC or PV network 12Vdc	DC or PV network 24Vdc	DC or PV network 48 Vdc	DC or PV network 75 Vdc	DC or PV network 95 Vdc	DC or PV network 110 Vdc	DC or PV network 130 Vdc	DC or PV network 220 Vdc	DC or PV network 280 Vdc	DC or PV network 350 Vdc	
Connection mode	+/-/PE										
Protection mode(s)	CM										
Max. DC operating voltage	Uc 24 Vdc	38 Vdc	65 Vdc	100 Vdc	125 Vdc	150 Vdc	180 Vdc	275 Vdc	350 Vdc	460 Vdc	
Max. AC operating voltage	Uc 20 Vac	30 Vac	50 Vac	75 Vac	95 Vac	115 Vac	150 Vac	210 Vac	275 Vac	350 Vac	
Residual current <i>- Leakage current at Uc</i>	Ipe < 0.1 mA										
Max. Load current <i>(if connection serie)</i>	IL 20 A	20 A	20 A	20 A	20 A	20 A	20 A	20 A	20 A	20 A	
Nominal discharge current <i>- 15 x 8/20 µs impulses</i>	In 10 kA	10 kA	15 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	
Max. discharge current <i>- max. withstand @ 8/20 µs by pole</i>	I _{max} 20 kA	20 kA	20 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	
CM Protection level @ In	Up 250 V	250 V	300 V	390 V	450 V	500 V	620 V	900 V	1200 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 / NF EN 61643-11 / UL1449 ed.4/EN 50539-11										
Part number	390101	390501	390401	310601	310301	310701	310801	310201	310501	310901	

