

Data Sheet

DC power surge protector DS2x0-xxDC series

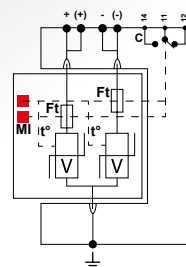
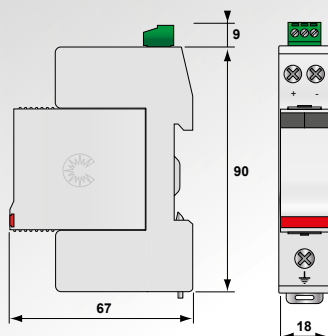


CITEL

I_{max}
20-40 kA



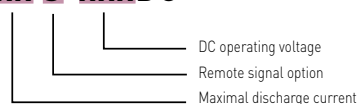
DS230-48DC



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

- 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	+/-/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	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 - Leakage current at Uc	Ipe	< 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	< 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	20 A
Nominal discharge current - 15 x 8/20 µs impulses	In	10 kA	10 kA	15 kA	20 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	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

