

ACT 450 DS2XX Family

Din Rail DC Power Surge Protector



▶ The ACT 450 DS2X0-XX DC Series Protectors is designed to protect equipment connected to DC power supply (or AC) against lightning surges.

These devices are based on high energy varistors (MOV) matched with the DC operating voltage (from 12 to 130 Vdc). The MOV are equipped with internal thermal disconnections in order to provide the safest end of life. The indication of the disconnection status is provided by a mechanical indicator and could be transmitted through a remote signal mechanism (option "S"). The pluggable module allows an easy and fast maintenance.

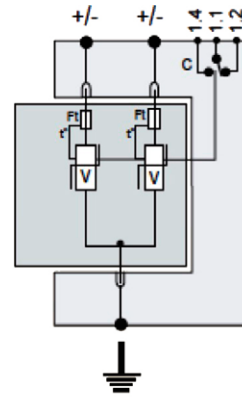
▶ FEATURES AND BENEFITS

- From 12 to 130Vdc
- Very low Up protection Level
- Compact design
- I_{max} extremely strong: 20 to 40kA
- IEC 61643-1, EN61643-11, UL 1449 4th Edition Type 3
- 1 Year Standard Warranty

▶ CHARACTERISTICS

PART NUMBER		DS22012DC	DS220-24DC	DS23048DC	DS24075DC	DS24095DC	DS240110DC	DS240130DC
Nominal DC voltage	U _n	12 Vdc	24 Vdc	48 Vdc	75 Vdc	95 Vdc	110 Vdc	130 Vdc
Maximum operating voltage	U _c	24 Vdc	38 Vdc	65 Vdc	100 Vdc	125 Vdc	150 Vdc	180 Vdc
Nominal discharge current	I _n	10kA	10 kA	15 kA	20 kA	20kA	20 kA	20 kA
Maximal discharge current	I _{max}	20 kA	20 kA	30 kA	40 kA	40 kA	40 kA	40 kA
Protection Level @ Up	U _p	250 V	250 V	300 V	390 V	450 V	500 V	520 V
Protection Level @ 3kA		195 V	195 V	230 V	280 V	310 V	370 V	510 V
Thermal disconnecter		internal	internal	internal	internal	internal	internal	internal
Protective fuses (if necessary)		20A gG	20A gG	20A gG	50A gG	50 gG	50 gG	50 gG
Dimensions		see drawing						
Wiring to network		by screw terminal - cross section 1,5-10mm ² (active wire) and 2,5-25mm ² (earthing wire)						
Disconnection indicator		2 mechanical indicators						
Replacement module		pluggable module DSM2x0-xxDC						
Remote signalling		option (DSM2X0-XXDC) - by changeover contact						
Mounting		on symmetrical rail						
Operative temperature		-40/+85°C						
Protection index		IP 20						
Housing material		thermoplastic UL94-V0						

▶ SPECIFICATIONS



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

ACT 450-DS2X0 S-XXDC

└─ DC operating range
└─ Remote signal option
└─ Maximal discharge current

