STABIL DC LINE SURGE PROTECTOR

1. GENERAL APPLICATIONS

1.1 The protector is for protecting your valued equipment from surges, transients, lightning impulses coupled into power system via direct or indirect strikes, an on/off or a short circuit in the transmission lines, induced or coupled into a DC voltage system, providing the safety of your personnel, communication equipment, computers and any other electronic equipment e.g. solar power system and etc.

1.2 The protector is able to protect Transient (also called " Surge ") such as an impulse of 8/20 μSec. waveform.

1.3 Matal Oxide Varistor (MOV), surge protecting component, is manufactured by TDK (formerly named SIEMENS) with the approval of UL1449.

1.4 The protector housing is made of nonflammable class material in according with UL94V-0 standard and DIN rail 35 mm. mountable.

1.5 The protector is plug in module unit with base element type for easy installation and replacement.

1.6 The protector is desingned, manufactured and tested according to the standard of IEC 61643-21.

2N1D series
SURGE PROTECTOR FOR DC LINE

2N1D12V
Size : 100 x 37 x 70 mm.

2. TECHNICAL DATA

CSR Parts   UL Approval

Descriptions	2N1D12V	2N1D24V	2N1D48V
2.1 Nominal operating voltage	12 Vdc	24 Vdc	48 Vdc
2.2 Max. operating voltage (Uc)	15 Vdc	30 Vdc	60 Vdc
2.3 Response time	< 25 nSec		
2.4 Operating temperature	-20 $^{\circ}$C to + 85 $^{\circ}$C		
2.5 DC load current	Independent (Un-limited)		
2.6 Nominal discharge current (In) (at 8/20 μSec.)	2 kA		
2.7 Max. discharge current (Imax) (at 8/20 μSec.)	4 kA		
2.8 Residual voltage (Ures)			
(Differential mode 6 kV / 3 kA)	< 300 V	< 350 V	< 400 V
(Common mode 6 kV / 3 kA)	< 200 V	< 250 V	< 300 V
2.9 Protection mode	All modes ([+]-G , [-]-G , [+]-[-])		
2.10 Status display	Normal or Fault indicator		
2.11 Housing material	UL94V-0 standard		
2.12 Mounting	DIN rail 35 mm.		
2.13 Connection type	Screw terminal		
2.14 Dimension (W x L x H)	Approx. 100 x 37 x 70 mm.		
2.15 Weight	Approx. 300 grams		
2.16 Standard according	IEC 61643-21		

3. OPTIONS

3.1	IC1 = Indoor Cabinet	IP1 = Indoor Plate	ID1 = on DIN RAIL	OC1 = Outdoor Cabinet

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