CONFORM TO UL1449
CERTIFIED TO CSA C22.2#8
Intertek
4006919

DC Surge Protective Device for PV

TYPE: PV50/1000-MVCDR

Differential and common mode DC Surge arrester for Photovoltaic protection against surges at the boundaries from lightning protection zone 0B-1 and higher.

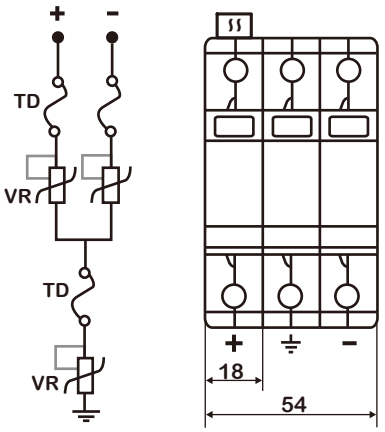
Terminal Block Modules series

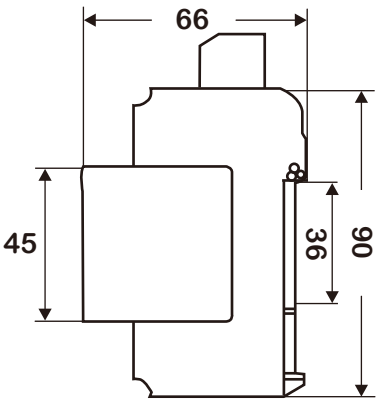
- **Class II (C) DC arrester in according with EN50539-11 and IEC61643-11.**
- **Two part design consisting of base and plug-in protection module.**
- **Differential and common protection mode.**
- **High energy MOV (Metal Oxide Varistor) inside.**
- **Reliable supervision due to disconnection device.**
- **Fault indication by red indication flag in window.**
- **Fast response.**
- **With remote alarm terminal.**

Characteristics

Type		PV50/1000-MVCDR
In accordance with		EN50539-11, IEC61643-11; UL1449 ed.3
Category IEC/VDE		II/ C
Protection Mode		Differential mode &Common mode
Nominal Voltage (DC)		1000VDC
Max. continuous operating voltage (DC)		1020V
Nominal discharge current (8/20) In		20KA
Max. discharge current(8/20) Imax	Per IEC61643	40KA
	Per UL1449	50KA
Voltage protection level at In		4.2KV
VPR at 6KV/3KA		<3KV
Response time		≤25 ns
Backup fuse(only required if not already provided in mains)		125A gL/gG
Operating temperature range		- 40° C + 80° C
Cross-section of connection wire		Single-strand 35mm^2; multi-strand 25mm^2
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3
Enclosure material		thermoplastic; extinguishing degree UL94 V-0
Degree of protection		IP20
Installation width		3 modules, DIN 43880
Thermal disconnector		Internal green – normal red - failure
Remote alarm contact		yes
Additional data for Remote Alarm Contacts		
Remote alarm contact type		floating changeover contact
Switching capability U_N/I_N		AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A
Cross-section of connection wire		Max. 1.5mm^2

Dimensions and Diagram





All dimension in mm

Note: Subject to change without any notice.