PV 40/1000-MVCDR

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

DC Surge Protective Device for PV

· Class II (C) DC arrester in according with IEC61643-1:2005.
· 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.
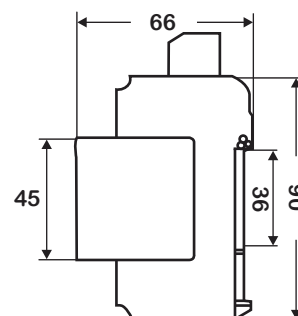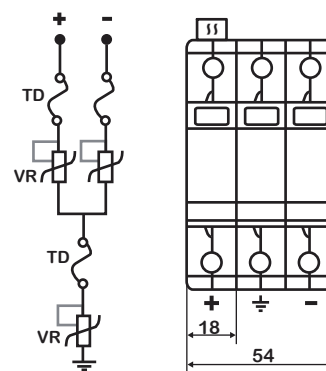· Short circuit current rating (SCCR) up to 200kArms as per UL1449-3rd

Rapid thermal disconnection under TOV ;
Inbuilt Arc - extinguishing device.

Characteristics

Type	PV40/1000-MVCDR
In accordance with	IEC61643-1:2005 ; UL1449 ed.3
Category IEC/VDE	II / C
Protection Mode	Differential mode & Common mode
Nominal Voltage (DC)	1000VDC
Max. continuous operating voltage (DC)	1060V
Nominal discharge current (8/20) In	20KA
Max. discharge current(8/20) Imax — Per IEC61643	40KA
Max. discharge current(8/20) Imax — Per UL1449	50KA
Voltage protection level at In	3.2KV
VPR at 6KV/3KA	<2KV
Response time	≤25 ns
Backup fuse (only required if not already provided in mains)	125A gL/gG
Operating temperature range	- 40ºC + 80ºC
Cross-section of connection wire	Single-strand 35$_{mm}^2$; multi-strand 25$_{mm}^2$
Mounting	35$_{mm}$ 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. 1.5$_{mm}^2$

Dimensions and Diagram

All dimension in mm

note: subject to change without any notice, JDA pay no responsibility