

VOLTAGE SURGE ARRESTERS FOR DC FLOATING OR EARTHED POWER SUPPLIES & SYSTEMS



Raycap

TYPE: PROTEC DMDR 20/xxx

■ FEATURES

- Type 3
- Wired in parallel
- Suitable for floating or Earthed DC systems
- Suitable for power supply and telecommunication applications
- No fusing required
- Flag indication
- Remote contact



■ DESCRIPTION & MODE OF OPERATION

Modular voltage surge arrester 8/20 conforming to the latest IEC / EN standards Class III (Type 3), to protect against the effects of indirect lightning strikes and the resultant induced voltages.

The units are suitable for both DC floating or Earthed systems and are wired in parallel and the need of fusing is not required. These units are particularly suitable for DC power supply protection and telecommunication applications.

The unit has a front mechanically driven flag indicator per pole, green for healthy and red for fault, plus a mechanically driven auxiliary N/C contact. In a healthy state the contact is made, In the event of the MOV's failing due to an intense or multiple surges the contact will change state to open (also indicated by the red flag). In this state protection has been lost, the unit will need replacing.

■ SPECIFICATIONS

Complies with: IEC61643-1:2005 / EN61643-11:2005
 Category: Class III / Type 3
 Protection via: High energy MOV's (Metal Oxide Varistors) & GDT (Gas Discharge Tube)

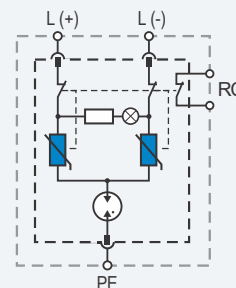
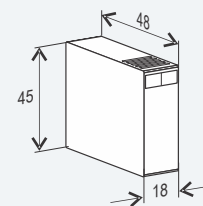
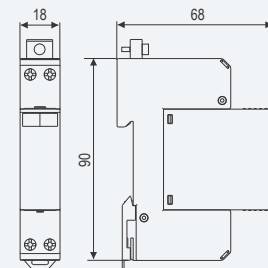
Response time floating system: <25n Sec
 Response time Earthed system: <100n Sec
 Thermal protection: Yes
 Operating temperature range: -40°C to +80°C
 Terminal cross section: 6mm² stranded cable
 Module size: 1 (18mm)
 Remote contact: Yes

PROTEC DMDR 20/	24V	48V	60V	120V
Maximum continuous DC voltage:	34V	60V	75V	150V
Nominal discharge current 8/20:	1.2KA	2.5KA	2.5KA	4.0KA
Max discharge current 8/20:	4KA	6KA	6KA	10KA
Protection level floating system:	<180V	<370V	<400V	<600V
Protection level Earthed system:	<550V	<650V	<700V	<850V

■ ORDERING INFORMATION

Type	Spare Modules	
PROTEC DMDR 20/24V	510 783	24VDC 510 784
PROTEC DMDR 20/48V	510 833	48VDC 510 836
PROTEC DMDR 20/60V	510 834	60VDC 510 837
PROTEC DMDR 20/120V	510 835	120VDC 510 838

DIMENSIONS & INTERNAL CONFIGURATION



- Legend**
- GDT Gas Discharge Tube
 - MOV Metal Oxide Varistor
 - PE Ground
 - R Resistor
 - RC Remote Control (NC)