



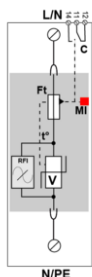
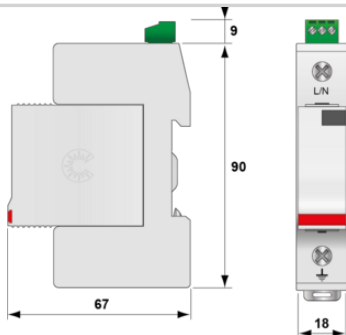
CITEL

## Type 2 AC surge protector + RFI filtering

## DS41HFS-120



- Type 2 AC surge protector
- RFI filtering integrated
- $I_n$  : 20 kA
- $I_{max}$  : 40 kA
- Pluggable module
- Remote signaling option
- EN 61643-11, IEC 61643-11, UL1449 ed.5 compliance



V: MOV  
Ft: Thermal fuse  
C: Remote signaling contact  
t\*: Thermal disconnection system  
RFI: RFI filtering

## Electrical Characteristics

|                                                                                                          |           |                                  |
|----------------------------------------------------------------------------------------------------------|-----------|----------------------------------|
| SPD type                                                                                                 | IEC       | 2                                |
| Network                                                                                                  |           | 120/208 V                        |
| Nominal line voltage                                                                                     | Un        | 120 Vac                          |
| Max. AC operating voltage                                                                                | Uc        | 150 Vac                          |
| Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection                              | UT        | 180 Vac withstand                |
| Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection | UT        | 230 Vac disconnection            |
| Follow current                                                                                           | If        | None                             |
| Nominal discharge current<br>15 x 8/20 $\mu$ s impulses                                                  | $I_n$     | 20 kA                            |
| Max. discharge current<br>max. withstand @ 8/20 $\mu$ s by pole                                          | $I_{max}$ | 40 kA                            |
| RFI Filtering                                                                                            |           | 0.1 - 30 MHz                     |
| Connection mode(s)                                                                                       |           | L/N or N/PE                      |
| Protection mode(s)                                                                                       |           | Common Mode or Differential Mode |
| Protection level<br>@ $I_n$ (8/20 $\mu$ s)                                                               | Up        | 0.9 kV                           |
| Residual voltage at 5 kA<br>@ 5 kA (8/20 $\mu$ s)                                                        | Up-5kA    | 0.6 kV                           |
| Max. capacitance                                                                                         | C         | 0,22 $\mu$ F                     |
| Admissible short-circuit current                                                                         | Iscrr     | 25 000 A                         |

## Mechanical Characteristics

|                                   |    |                                           |
|-----------------------------------|----|-------------------------------------------|
| Technology                        |    | MOV+Filter                                |
| SPD configuration                 |    | Single phase                              |
| Connection to Network             |    | By screw terminals: 2.5-25mm <sup>2</sup> |
| Format                            |    | Plug-in modular box                       |
| Mounting                          |    | Symmetrical rail 35 mm (EN 60715)         |
| Housing material                  |    | Thermoplastic UL94 V-0                    |
| Operating temperature             | Tu | -40/+85°C                                 |
| Protection rating                 |    | IP20                                      |
| Failsafe mode                     |    | Disconnection from AC network             |
| Disconnection indicator           |    | 1 mechanical indicator                    |
| Spare module(s)                   |    | DSM40HF-120                               |
| Remote signaling of disconnection |    | Output on changeover contact              |
| Dimensions                        |    | See diagram                               |
| Weight                            |    | 0.103 kg                                  |

## Disconnectors

|                                   |  |                      |
|-----------------------------------|--|----------------------|
| Thermal disconnector              |  | Internal             |
| Installation ground fault breaker |  | Type 'S' or delayed  |
| Back-up protection device         |  | Fuses type gG - 50 A |

## Standards

|                      |  |                                          |
|----------------------|--|------------------------------------------|
| Standards compliance |  | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| Certification        |  | CSA                                      |

## Part number

461690

