

## DS42-120



- Type 2 AC Multipolar surge protector
- In : 20 kA
- Imax total : 80 kA
- Pluggable module for each phase
- Remote signaling option
- EN 61643-11, IEC 61643-11 compliance
- UL1449 ed.5 certified



| Electrical Characteristics  |                               |
|---|-------------------------------|
| SPD type  | 2                             |
| Network   | 120 V single-phase            |
| AC system   | TN                            |
| Nominal line voltage  | Un 120 Vac                    |
| Max. AC operating voltage   | Uc 150 Vac                    |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.<br>Without disconnection                              | UT 180 Vac withstand          |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br>Without disconnection or with safety disconnection | UT 230 Vac disconnection      |
| Residual Current<br>Leakage current to Ground   | Ipe < 1 mA                    |
| Follow current  | If None                       |
| Nominal discharge current<br>15 x 8/20 $\mu$ s impulses   | In 20 kA                      |
| Max. discharge current<br>max. withstand @ 8/20 $\mu$ s by pole   | Imax 40 kA                    |
| Total Maximum discharge current<br>max. total withstand @ 8/20 $\mu$ s                                      | Imax Total 80 kA              |
| Connection mode(s)  | L/PE and N/PE                 |
| Protection mode(s)  | Common mode/Differential mode |
| Residual voltage at 5 kA<br>@ 5 kA (8/20 $\mu$ s)   | Up-5kA 0.6 kV                 |
| Protection level N/PE<br>@ In (8/20 $\mu$ s)  | Up N/PE 0.9 kV                |
| Protection level L/PE<br>@ In (8/20 $\mu$ s)  | Up L/PE 1.2 kV                |
| Admissible short-circuit current  | Iscsr 25 000 A                |

  

| Mechanical Characteristics        |  |
|-----------------------------------|--|
| Technology                        | MOV  |
| SPD configuration                 | Single phase                                       |
| Connection to Network             | By screw terminals: 2.5-25mm <sup>2</sup> / by bus |
| 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 by pole                     |
| Spare module(s)                   | DSM40-120  |
| Remote signaling of disconnection | option DS42S-120 : output on changeover contact    |
| Dimensions                        | See diagram  |

  

| 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 / UL                                 |
| Part number          | 461601                                   |

