



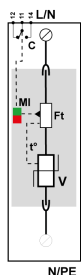
# CITEL



## Type 2 AC surge protector - 1-pole - pluggable

### DS41S-120

- Discover our latest innovation : the [DAC50S-10-150](#)
- Type 2 AC surge protector
- In : 20 kA
- Imax : 40 kA
- Pluggable module for each phase
- Remote signaling
- NF EN 61643-11, IEC 61643-11 compliance
- UL1449 ed.5



V: High-energy varistor  
Ft: Thermal fuse  
C: Remote signal contact  
t\*: Thermal disconnection system  
MI: Disconnection indicator

| 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                              |
| Residual Current Leakage current to Ground                                                               | Ipe    | < 0.5 mA                                           |
| Follow current                                                                                           | If     | None                                               |
| Nominal discharge current 15 x 8/20 $\mu$ s impulses                                                     | In     | 20 kA                                              |
| Max. discharge current max. withstand @ 8/20 $\mu$ s by pole                                             | Imax   | 40 kA                                              |
| Connection mode(s)                                                                                       |        | L/N or N/PE                                        |
| Protection mode(s)                                                                                       |        | Common Mode or Differential Mode                   |
| Protection level @ In (8/20 $\mu$ s)                                                                     | Up     | 0.9 kV                                             |
| Residual voltage at 5 kA @ 5 kA (8/20 $\mu$ s)                                                           | Up-5kA | 0.6 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                             |
| Spare module(s)                                                                                          |        | DSM40-120                                          |
| Remote signaling of disconnection                                                                        |        | 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                                                                                            |        | cRUus                                              |
| Environmental standards                                                                                  |        | EU RoHS                                            |
| Part number                                                                                              |        |                                                    |



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