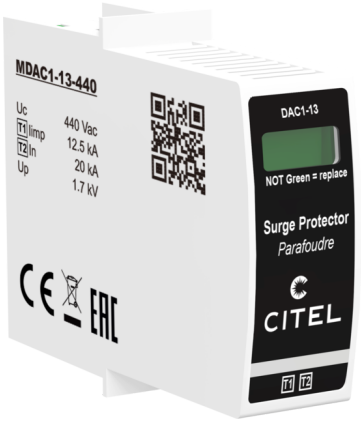
# Type 1+2 AC surge protector - 1-pole

## MDAC1-13-440




- Type 1 + 2 AC surge protector
- In : 20 kA
- Iimp : 12.5 kA
- Pluggable module for each phase
- Remote signaling (option)
- EN 61643-11, IEC 61643-11, UL1449 ed.5 compliance

| Electrical Characteristics | | |
|---|---|---|
| SPD type | IEC | 1+2 |
| Max. AC operating voltage | Uc | 440 Vac |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.<br>Without disconnection | UT | 580 Vac withstand |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br>Without disconnection or with safety disconnection | UT | 770 Vac disconnection |
| Residual Current<br>Leakage current to Ground | Ipe | < 1 mA |
| Follow current | If | None |
| Nominal discharge current<br>15 x 8/20 µs impulses | In | 20 kA |
| Max. discharge current<br>max. withstand @ 8/20 µs by pole | Imax | 50 kA |
| Impulse current by pole<br>max. withstand 10/350µs by pole | Iimp | 12.5 kA |
| Specific energy by pole<br>max. withstand 10/350 µs | W/R | 40 kJ/ohm |
| Protection level<br>@ In (8/20µs) | Up | 1.7 kV |
| Residual voltage at 5 kA<br>@ 5 kA (8/20µs) | Up-5kA | 1.5 kV |
| Admissible short-circuit current | Isccr | 50 000 A |
| **Mechanical Characteristics** | | |
| Technology | | VG Technology (MOV+GSG) |
| SPD configuration | | Single phase |
| Connection to Network | | By screw terminals: 2.5-25mm² (35mm² rigid) |
| 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 - Red/Green |
| Spare module(s) | | MDAC1-13-440 |
| Remote signaling of disconnection | | option DAC1-13S-10-440: output on changeover contact |
| Weight | | 0.176 kg |
| **Disconnectors** | | |
| Thermal disconnector | | Internal |
| Installation ground fault breaker | | Type 'S' or delayed |
| Back-up protection device | | 315 A max. - Fuses Type gG / or SFD1-25S |
| **Standards** | | |
| Standards compliance | | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| Certification | | |
| **Part number** | | |
| 821710400 | | |