



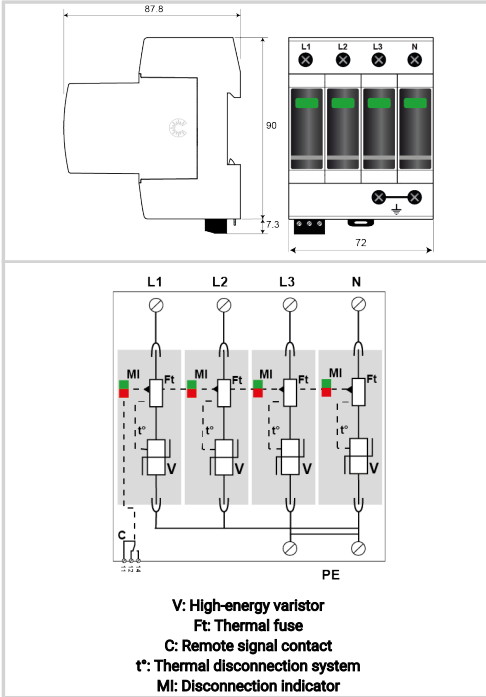
CITEL

Type 1+2 AC surge protector - 3-phase+N

DAC1-13S-40-440



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



| Electrical Characteristics | | |
|--|------------------------|---|
| SPD type | IEC | 1+2 |
| Network | | 230/400 V 3-phase+N |
| AC system | | IT |
| Max. AC operating voltage | Uc | 440 Vac |
| Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection | UT | 580 Vac withstand |
| Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection | UT | 770 Vac disconnection |
| Residual Current Leakage current to Ground | Ipe | < 1 mA |
| Follow current | If | None |
| Nominal discharge current 15 x 8/20 μs impulses | In | 20 kA |
| Max. discharge current max. withstand @ 8/20 μs by pole | I _{max} | 50 kA |
| Total Maximum discharge current max. total withstand @ 8/20 μs | I _{max} Total | 200 kA |
| Impulse current by pole max. withstand 10/350μs by pole | I _{imp} | 12.5 kA |
| Impulse current N/PE max. withstand 10/350μs | I _{imp} N /PE | 50 kA |
| Total lightning current max. total withstand @ 10/350μs | I _{total} | 50 kA |
| Specific energy by pole max. withstand 10/350 μs | W/R | 40 kJ/ohm |
| Protection mode(s) | | L/PE and N/PE |
| Protection level N/PE @ In (8/20μs) | Up N/PE | 1.7 kV |
| Protection level L/PE @ In (8/20μs) | Up L/PE | 1.7 kV |
| Protection level N/PE at 5 kA @ 5 kA (8/20μs) | Up-5kA | 1.5 kV |
| Residual voltage L/PE at 5 kA @ 5 kA (8/20μs) | Up-5kA | 1.5 kV |
| Admissible short-circuit current | I _{sc} | 50 000 A |
| Mechanical Characteristics | | |
| Technology | | MOV |
| SPD configuration | | 3-phase+Neutral |
| Connection to Network | | By screw terminals: 2.5-25mm ² (35mm ² 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 by pole - Red/Green |
| Spare module(s) | | MDAC1-13-440 |
| Remote signaling of disconnection | | Output on changeover contact |
| Wiring for remote signaling | | 1.5 mm ² max. |
| Max. Voltage/Current for remote signaling | | 250 V / 0.5 A (AC) / 30 V / 3 A (DC) |
| Dimensions | | See diagram - 4TE (EN43880) |
| Disconnectors | | |
| Thermal disconnector | | Internal |
| Installation ground fault breaker | | Type 'S' or delayed |
| Back-up protection device | | max. 315 A (gL/gG) |
| Standards | | |
| Standards compliance | | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| Certification | | |
| Part number | | |
| 821710424 | | |

