



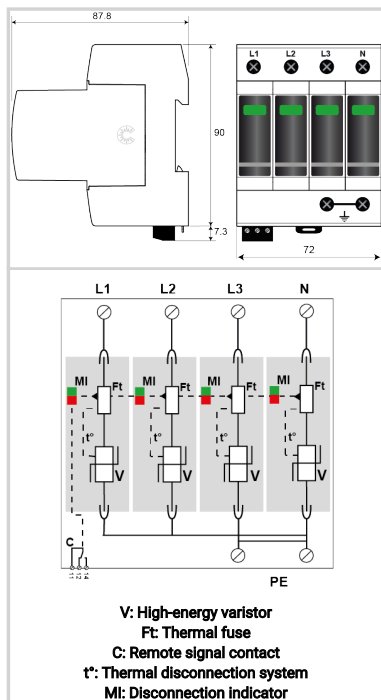
# CITEL

## 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 $\mu$ s impulses                                                     | In         | 20 kA                 |
| Max. discharge current max. withstand @ 8/20 $\mu$ s by pole                                             | Imax       | 50 kA                 |
| Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s                                      | Imax Total | 200 kA                |
| Impulse current by pole max. withstand 10/350 $\mu$ s by pole                                            | Iimp       | 12.5 kA               |
| Impulse current N/PE max. withstand 10/350 $\mu$ s                                                       | Iimp N /PE | 50 kA                 |
| Total lightning current max. total withstand @ 10/350 $\mu$ s                                            | Itotal     | 50 kA                 |
| Specific energy by pole max. withstand 10/350 $\mu$ s                                                    | W/R        | 40 kJ/ohm             |
| Protection mode(s)                                                                                       |            | L/PE and N/PE         |
| Protection level N/PE @ In (8/20 $\mu$ s)                                                                | Up N/PE    | 1.7 kV                |
| Protection level L/PE @ In (8/20 $\mu$ s)                                                                | Up L/PE    | 1.7 kV                |
| Protection level N/PE at 5 kA @ 5 kA (8/20 $\mu$ s)                                                      | Up-5kA     | 1.5 kV                |
| Residual voltage L/PE at 5 kA @ 5 kA (8/20 $\mu$ s)                                                      | Up-5kA     | 1.5 kV                |
| Admissible short-circuit current                                                                         | Iscrr      | 50 000 A              |

#### Mechanical Characteristics

|                                           |    |                                                                     |
|-------------------------------------------|----|---------------------------------------------------------------------|
| Technology                                |    | MOV                                                                 |
| SPD configuration                         |    | 3-phase+Neutral                                                     |
| Connection to Network                     |    | By screw terminals: 2.5-25mm <sup>2</sup> (35mm <sup>2</sup> 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 <sup>2</sup> 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**

