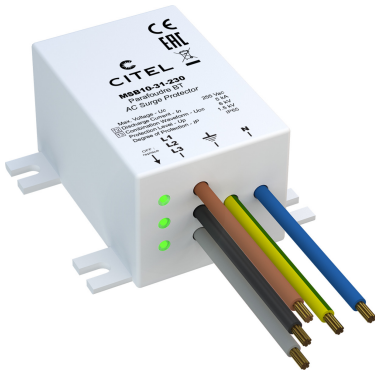




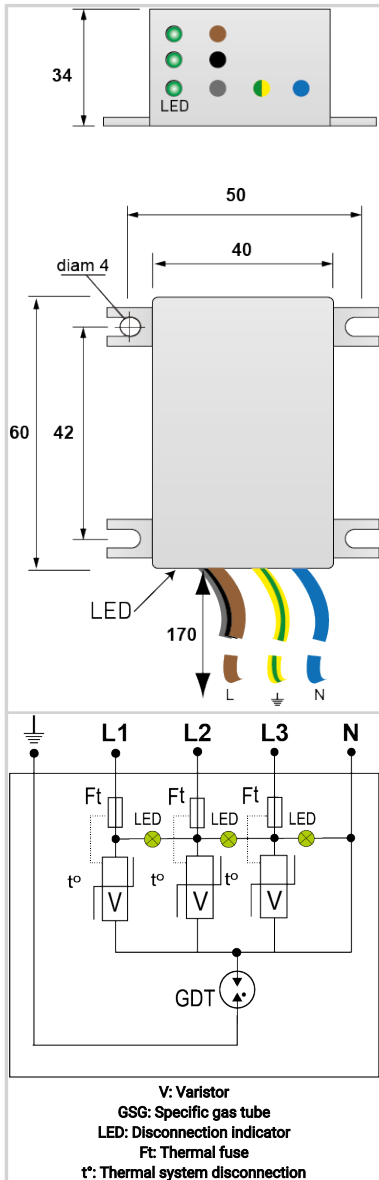
# CITEL



## Compact Type 2+3 hard wired surge protector

### MSB10-31-230

- › Compact type 2 (or 3) surge protector
- › Wall mounting and hard wired connection
- › Status indicators
- › IP65



#### Electrical Characteristics

|                                                                                                                          |         |                          |
|--------------------------------------------------------------------------------------------------------------------------|---------|--------------------------|
| SPD type                                                                                                                 | IEC     | 2+3                      |
| Network                                                                                                                  |         | 230/400V                 |
| AC system                                                                                                                |         | TT-TN                    |
| Nominal line voltage                                                                                                     | Un      | 230/400 Vac              |
| Max. AC operating voltage                                                                                                | Uc      | 255 Vac                  |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.<br><i>Without disconnection</i>                                    | UT      | 335 Vac withstand        |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br><i>Without disconnection or with safety disconnection</i>       | UT      | 440 Vac disconnection    |
| Follow current                                                                                                           | If      | None                     |
| Nominal discharge current<br><i>15 x 8/20 <math>\mu</math>s impulses</i>                                                 | In      | 5 kA                     |
| Max. discharge current<br><i>max. withstand @ 8/20 <math>\mu</math>s by pole</i>                                         | Imax    | 10 kA                    |
| Withstand on Combination waveform IEC 61643-11<br><i>Class III test: 1.2/50<math>\mu</math>s - 8/20<math>\mu</math>s</i> | Uoc     | 6 kV                     |
| Withstand on overvoltages IEEE C62.41.1                                                                                  |         | 10 kV / 10 kA            |
| Protection mode(s)                                                                                                       |         | Common/Differential mode |
| Protection level L/N<br><i>@ In (8/20<math>\mu</math>s)</i>                                                              | Up L/N  | 1.5 kV                   |
| Protection level L/PE<br><i>@ In (8/20<math>\mu</math>s)</i>                                                             | Up L/PE | 1.5 kV                   |
| Admissible short-circuit current                                                                                         | Iscrr   | 10 000 A                 |

#### Mechanical Characteristics

|                         |    |                                    |
|-------------------------|----|------------------------------------|
| Technology              |    | MOV+GDT                            |
| Connection to Network   |    | Connecting wire, 2 mm <sup>2</sup> |
| Mounting                |    | Wall or plate                      |
| Housing material        |    | Thermoplastic UL94 V-0             |
| Operating temperature   | Tu | -40/+85°C                          |
| Protection rating       |    | IP65                               |
| Failsafe mode           |    | Disconnection from AC network      |
| Disconnection indicator |    | 3-Green LED OFF                    |
| Operating indicator     |    | 3-Green Led ON                     |
| Dimensions              |    | See diagram                        |

#### Disconnectors

|                                   |  |                     |
|-----------------------------------|--|---------------------|
| Thermal disconnector              |  | Internal            |
| Installation ground fault breaker |  | Type 'S' or delayed |

#### Standards

|                      |  |                                          |
|----------------------|--|------------------------------------------|
| Standards compliance |  | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| Certification        |  |                                          |

#### Part number

**561223**

