



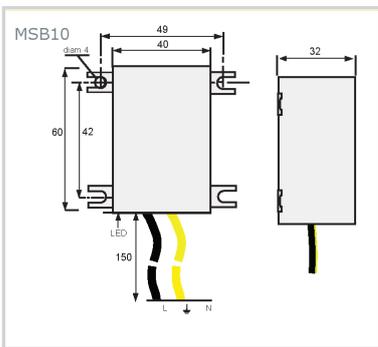
# CITEL

## UL TYPE 4CA - I<sub>max</sub> 18kA - I<sub>n</sub> 3kA

### MSB10-400-Ex



- MOV Technology
- UL121201 Listed-Hazardous Locations
- UL 1449 5th- Type 4CA
- I<sub>max</sub> 18kA
- I<sub>n</sub> 3kA
- LED Indicator
- IP67
- ANSI/IEEE C136.2 Extreme 20kV/10kA
- ANSI/IEEE C62.41 20kV/10kA
- 10-year warranty



#### Electrical Characteristics

|   |                    |                          |
|---|--------------------|--------------------------|
| Network   |                    | 230 V single-phase       |
| Nominal line voltage  | U <sub>n</sub>     | 230 V                    |
| Max. AC operating voltage   | U <sub>c</sub>     | 255 Vac                  |
| Max. discharge current<br><i>max. withstand @ 8/20 μs by pole</i> | I <sub>max</sub>   | 10 kA                    |
| Protection mode(s)  |                    | Common/Differential mode |
| Protection level L/N<br><i>@ I<sub>n</sub> (8/20μs)</i>           | U <sub>p</sub> L/N | 1.5 kV                   |
| POWER SPD TYPE  |                    | UL1449 5th Ed. TYPE 4CA  |
| VOLTS   | (V)                | 277                      |
| AC/DC/DC PV/RF  |                    | AC                       |
| PHASE   | (PH)               | 1                        |
| AMPS  | (A)                | N/A                      |
| AMBIENT MIN   | (C)                | -35                      |
| AMBIENT MAX   | (C)                | +85                      |
| MODES   |                    | L-L, L-G, L-N            |
| MLV   | (V)                | 780/1340/1330/-          |
| MCOV  | (V)                | 300/300/300              |
| IN<br><i>15 impulses 8/20μs</i>                                   | (kA)               | 3                        |
| SCCR  | (kA)               | n/a                      |
| IMAX<br><i>8/20μs</i>   | (kA)               | 18                       |

#### Mechanical Characteristics

|                         |                |   |
|-------------------------|----------------|---|
| Technology              |                | MOV+GDT   |
| Connection to Network   |                | Wires   |
| Mounting                |                | Wall or plate                                     |
| Operating temperature   | T <sub>u</sub> | -40/+85°C   |
| Protection rating       |                | IP65  |
| Failsafe mode           |                | Disconnection from AC network                     |
| TECHNOLOGY              |                | Thermal-MOV                                       |
| NETWORK CONFIGURATION   |                | 1PH, 2W+G, Single Phase (or 2PH, 2W+G, Two Phase) |
| CONNECTION METHOD       |                | 18" #14 AWG LEADS                                 |
| MOUNTING                |                | FLANGE MOUNT                                      |
| MATERIAL                |                | Thermoplastic UL94-V0                             |
| NEMA RATING (IP RATING) |                | NEMA 6P (IP67)                                    |
| FAIL-SAFE BEHAVIOR      |                | Disconnection via fuse-link                       |
| REAL-TIME DIAGNOSTICS   |                | LED Indicator                                     |
| DIMENSIONS              |                | See diagram                                       |
| WEIGHT                  |                | 0.30 lbs  |
| SPARE PART              |                | n/a   |

#### Standards

|                             |  |   |
|-----------------------------|--|---|
| Certification               |  | cRUus   |
| Environmental standards     |  | EU RoHS   |
| UL STANDARD                 |  | UL1449 5th Edition & UL121201                               |
| UL CATEGORY                 |  | VZCA2, VZCA8 & VZCH, VZCH7                                  |
| UL FILE NUMBER              |  | E326289, E527348  |
| UL121201 HAZARDOUS LOCATION |  | Class I, Division 2, Groups A, B, C & D: Operating Temp. T4 |
| STANDARDS                   |  | NOM-003-SCFI-2014, NOM-001-SCFI-1993                        |
| ANSI/IEEE C62.41            |  | Category C 20kV/10kA  |
| ANSI/IEEE C136.2            |  | Extreme Category 20kV/10kA                                  |

#### Part number

**897020**

