



1-pair Data surge protector unit

CITEL

B180-48D3



- ↳ Compact 1-pair surge protection unit
- ↳ 48 V
- ↳ Removable protection circuit
- ↳ Wall mounting and screw connection
- ↳ UL497 A&B



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|------------|--|--------------------|----------------------|----|--------|---------------------------|----|---|----------------|--------|-------------------|----------------|--|--|--|------|------------------------|-----------------------|----|--------------------------|------------------------------------|--------|------|------------------------------------|---------|---|-----------------|--|-----------|------------|--|-------------|
| | Electrical Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>G: 3-electrode gas tube R: Resistor D3: 3-pole clamping diode</p> | <table border="1"> <tr> <td>Network</td> <td></td> <td>48 V line</td> </tr> <tr> <td>Nominal line voltage</td> <td>Un</td> <td>48 V</td> </tr> <tr> <td>Max. DC operating voltage</td> <td>Uc</td> <td>53 Vdc</td> </tr> <tr> <td>Max. frequency</td> <td>f max.</td> <td>> 3 MHz</td> </tr> <tr> <td>Insertion loss</td> <td></td> <td>< 1 dB</td> </tr> <tr> <td>Max. discharge current max. withstand @ 8/20 μs by pole</td> <td>Imax</td> <td>20 kA</td> </tr> <tr> <td>Protection mode(s)</td> <td></td> <td>Common/Differential mode</td> </tr> <tr> <td>Protection level @ In (8/20 μs)</td> <td>Up L/L</td> <td>70 V</td> </tr> <tr> <td>Protection level @ In (8/20 μs)</td> <td>Up L/PE</td> <td>20 V</td> </tr> <tr> <td>Line resistance</td> <td></td> <td>< 4.7 Ohm</td> </tr> </table> | | Network | | 48 V line | Nominal line voltage | Un | 48 V | Max. DC operating voltage | Uc | 53 Vdc | Max. frequency | f max. | > 3 MHz | Insertion loss | | < 1 dB | Max. discharge current max. withstand @ 8/20 μs by pole | Imax | 20 kA | Protection mode(s) | | Common/Differential mode | Protection level @ In (8/20 μs) | Up L/L | 70 V | Protection level @ In (8/20 μs) | Up L/PE | 20 V | Line resistance | | < 4.7 Ohm | | | |
| Network | | 48 V line | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nominal line voltage | Un | 48 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. DC operating voltage | Uc | 53 Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. frequency | f max. | > 3 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Insertion loss | | < 1 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. discharge current max. withstand @ 8/20 μs by pole | Imax | 20 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protection mode(s) | | Common/Differential mode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protection level @ In (8/20 μs) | Up L/L | 70 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protection level @ In (8/20 μs) | Up L/PE | 20 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line resistance | | < 4.7 Ohm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mechanical Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Technology</td> <td></td> <td>GDT+Clamping diode</td> </tr> <tr> <td>SPD configuration</td> <td></td> <td>1 pair</td> </tr> <tr> <td>Connection to Network</td> <td></td> <td>By screw terminal: cross section 0.4-1.5mm²</td> </tr> <tr> <td>Format</td> <td></td> <td>Wall mounting box</td> </tr> <tr> <td>Mounting</td> <td></td> <td>Wall mounting by screws (not supplied)</td> </tr> <tr> <td>Housing material</td> <td></td> <td>Thermoplastic UL94 V-0</td> </tr> <tr> <td>Operating temperature</td> <td>Tu</td> <td>-40/+85°C</td> </tr> <tr> <td>Protection rating</td> <td></td> <td>IP20</td> </tr> <tr> <td>Failsafe mode</td> <td></td> <td>Short-circuit - transmission cut-off - fault mode 2</td> </tr> <tr> <td>Spare module(s)</td> <td></td> <td>S180-48D3</td> </tr> <tr> <td>Dimensions</td> <td></td> <td>See diagram</td> </tr> </table> | | | Technology | | GDT+Clamping diode | SPD configuration | | 1 pair | Connection to Network | | By screw terminal: cross section 0.4-1.5mm ² | Format | | Wall mounting box | Mounting | | Wall mounting by screws (not supplied) | Housing material | | Thermoplastic UL94 V-0 | Operating temperature | Tu | -40/+85°C | Protection rating | | IP20 | Failsafe mode | | Short-circuit - transmission cut-off - fault mode 2 | Spare module(s) | | S180-48D3 | Dimensions | | See diagram |
| Technology | | GDT+Clamping diode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPD configuration | | 1 pair | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connection to Network | | By screw terminal: cross section 0.4-1.5mm ² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Format | | Wall mounting box | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mounting | | Wall mounting by screws (not supplied) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Housing material | | Thermoplastic UL94 V-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operating temperature | Tu | -40/+85°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protection rating | | IP20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Failsafe mode | | Short-circuit - transmission cut-off - fault mode 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spare module(s) | | S180-48D3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions | | See diagram | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Standards | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Standards compliance | | IEC 61643-21 / EN 61643-21 / UL497A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Certification | | UL 497B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Part number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 510402 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

