



- ↳ Hybrid SAD-GDT Technology
- ↳ UL497B LISTED
- ↳ 20kA I_{max} (1x 8/20us)
- ↳ 5kA I_{mp} (2x 10/350us)
- ↳ 5kA I_n (10x 8/20us)
- ↳ Modular with Visual Fault Indicator
- ↳ Spring & Screw Terminal versions
- ↳ Circuit disconnection with Module removal
- ↳ Common/Differential Mode Protection

| | Electrical Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--------------------------|--|-------------------|-----------------------|----------------------------|----------------|--------------------|--|-------------------------|-----------------------------------|--|--|---|--------------------|--|--------------------------|---|------|-----------------------|---|----------------|-------------------|--|---------------------|----------|-------------------------|--|----------|-----------------------|--|-------------------------|---------------|-----|------------|-------------|--|-------------|------------------|-----|------------|-------------|-----|-----|-------------|-----|-----|------------------|-----|----|------|-----|----|---|------|---|-----------------------------------|------|----|-------------------------|------|---|------------|--------|--------|
| <p>G: 3-electrode gas tube Gb: 2-electrode gas tube PTC: Thermal resistor R: Resistor D: Clamping diode Vi: Indicator</p> | <table border="1"> <tr><td>Network</td><td></td><td>RS232 - RS485</td></tr> <tr><td>Max. DC operating voltage</td><td>U_c</td><td>15 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>Protection mode(s)</td><td></td><td>Common/Differential mode</td></tr> <tr><td>Impulse current <i>2 x 10/350µs Test - D1 Category</i></td><td>limp</td><td>5 kA</td></tr> <tr><td>Nominal discharge current <i>C2 Category</i></td><td>I_n</td><td>5 kA</td></tr> <tr><td>Nominal Discharge Current, X-C (Line/Earth) <i>8/20µs Test x 10 - C2 Category</i></td><td>I_n L/PE</td><td>5 kA</td></tr> <tr><td>Line resistance (± 10%)</td><td></td><td>4.7 Ohm</td></tr> <tr><td>DATA SPD TYPE</td><td></td><td>UL497B LISTED</td></tr> <tr><td>VOLTS</td><td>(V)</td><td>12</td></tr> <tr><td>WIRES</td><td></td><td>2W+Shield+G</td></tr> <tr><td>LINE CURRENT MAX</td><td>(A)</td><td>0.3</td></tr> <tr><td>AMBIENT MIN</td><td>(C)</td><td>-50</td></tr> <tr><td>AMBIENT MAX</td><td>(C)</td><td>+85</td></tr> <tr><td>RESIDUAL VOLTAGE</td><td>(V)</td><td>30</td></tr> <tr><td>MCOV</td><td>(V)</td><td>15</td></tr> <tr><td>I_N <i>10 impulses 8/20µs</i></td><td>(kA)</td><td>5</td></tr> <tr><td>I_{MAX} <i>8/20µs</i></td><td>(kA)</td><td>20</td></tr> <tr><td>limp <i>10/350µs</i></td><td>(kA)</td><td>5</td></tr> <tr><td>DATA SPEED</td><td>(Mbps)</td><td>10/100</td></tr> </table> | | Network | | RS232 - RS485 | Max. DC operating voltage | U _c | 15 Vdc | Max. frequency | f max. | > 3 MHz | Insertion loss | | < 1 dB | Protection mode(s) | | Common/Differential mode | Impulse current <i>2 x 10/350µs Test - D1 Category</i> | limp | 5 kA | Nominal discharge current <i>C2 Category</i> | I _n | 5 kA | Nominal Discharge Current, X-C (Line/Earth) <i>8/20µs Test x 10 - C2 Category</i> | I _n L/PE | 5 kA | Line resistance (± 10%) | | 4.7 Ohm | DATA SPD TYPE | | UL497B LISTED | VOLTS | (V) | 12 | WIRES | | 2W+Shield+G | LINE CURRENT MAX | (A) | 0.3 | AMBIENT MIN | (C) | -50 | AMBIENT MAX | (C) | +85 | RESIDUAL VOLTAGE | (V) | 30 | MCOV | (V) | 15 | I _N <i>10 impulses 8/20µs</i> | (kA) | 5 | I _{MAX} <i>8/20µs</i> | (kA) | 20 | limp <i>10/350µs</i> | (kA) | 5 | DATA SPEED | (Mbps) | 10/100 |
| Network | | RS232 - RS485 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. DC operating voltage | U _c | 15 Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. frequency | f max. | > 3 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Insertion loss | | < 1 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protection mode(s) | | Common/Differential mode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Impulse current <i>2 x 10/350µs Test - D1 Category</i> | limp | 5 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nominal discharge current <i>C2 Category</i> | I _n | 5 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nominal Discharge Current, X-C (Line/Earth) <i>8/20µs Test x 10 - C2 Category</i> | I _n L/PE | 5 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line resistance (± 10%) | | 4.7 Ohm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATA SPD TYPE | | UL497B LISTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VOLTS | (V) | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WIRES | | 2W+Shield+G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINE CURRENT MAX | (A) | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AMBIENT MIN | (C) | -50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AMBIENT MAX | (C) | +85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESIDUAL VOLTAGE | (V) | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MCOV | (V) | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I _N <i>10 impulses 8/20µs</i> | (kA) | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I _{MAX} <i>8/20µs</i> | (kA) | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| limp <i>10/350µs</i> | (kA) | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATA SPEED | (Mbps) | 10/100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Connection ribbons available:</p> <table border="1"> <thead> <tr> <th>Nb of pole</th> <th>Ref. Ribbon</th> </tr> </thead> <tbody> <tr> <td>2 - 5</td> <td>R-BUS 5P (301134)</td> </tr> <tr> <td>6 - 10</td> <td>R-BUS 10P (301133)</td> </tr> <tr> <td>11 - 25</td> <td>R-BUS 25P (301135)</td> </tr> <tr> <td>26 - 49</td> <td>R-BUS 49P (301143)</td> </tr> </tbody> </table> | Nb of pole | Ref. Ribbon | 2 - 5 | R-BUS 5P (301134) | 6 - 10 | R-BUS 10P (301133) | 11 - 25 | R-BUS 25P (301135) | 26 - 49 | R-BUS 49P (301143) | Mechanical Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nb of pole | Ref. Ribbon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 - 5 | R-BUS 5P (301134) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 - 10 | R-BUS 10P (301133) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 - 25 | R-BUS 25P (301135) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 - 49 | R-BUS 49P (301143) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>Technology</td><td colspan="2">GDT+Clamping diode+PTC (thermal resistor) + Resistor</td></tr> <tr><td>Connection to Network</td><td colspan="2">By spring contact terminal</td></tr> <tr><td>Format</td><td colspan="2">Plug-in DIN box</td></tr> <tr><td>Failsafe mode</td><td colspan="2">Opening line - transmission cut-off - fault mode 2</td></tr> <tr><td>With line cut-off in case of removal plug-in module</td><td colspan="2">Yes</td></tr> <tr><td>TECHNOLOGY</td><td colspan="2">SAD-GDT</td></tr> <tr><td>NETWORK CONFIGURATION</td><td colspan="2">1 pair</td></tr> <tr><td>CONNECTION METHOD</td><td colspan="2">Spring Contact Terminal</td></tr> <tr><td>MOUNTING</td><td colspan="2">DIN RAIL</td></tr> <tr><td>MATERIAL</td><td colspan="2">Thermoplastic UL94-V0</td></tr> <tr><td>NEMA RATING (IP RATING)</td><td colspan="2">NEMA 2 (IP20)</td></tr> <tr><td>DIMENSIONS</td><td colspan="2">See diagram</td></tr> <tr><td>WEIGHT</td><td colspan="2">0.30 lbs</td></tr> <tr><td>SPARE PART</td><td colspan="2">DLASM-12D3</td></tr> </table> | | Technology | GDT+Clamping diode+PTC (thermal resistor) + Resistor | | Connection to Network | By spring contact terminal | | Format | Plug-in DIN box | | Failsafe mode | Opening line - transmission cut-off - fault mode 2 | | With line cut-off in case of removal plug-in module | Yes | | TECHNOLOGY | SAD-GDT | | NETWORK CONFIGURATION | 1 pair | | CONNECTION METHOD | Spring Contact Terminal | | MOUNTING | DIN RAIL | | MATERIAL | Thermoplastic UL94-V0 | | NEMA RATING (IP RATING) | NEMA 2 (IP20) | | DIMENSIONS | See diagram | | WEIGHT | 0.30 lbs | | SPARE PART | DLASM-12D3 | | | | | | | | | | | | | | | | | | | | | | | |
| Technology | GDT+Clamping diode+PTC (thermal resistor) + Resistor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connection to Network | By spring contact terminal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Format | Plug-in DIN box | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Failsafe mode | Opening line - transmission cut-off - fault mode 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| With line cut-off in case of removal plug-in module | Yes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TECHNOLOGY | SAD-GDT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NETWORK CONFIGURATION | 1 pair | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONNECTION METHOD | Spring Contact Terminal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MOUNTING | DIN RAIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MATERIAL | Thermoplastic UL94-V0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEMA RATING (IP RATING) | NEMA 2 (IP20) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DIMENSIONS | See diagram | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEIGHT | 0.30 lbs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPARE PART | DLASM-12D3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Standards | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>UL STANDARD</td><td>UL497B (pending)</td></tr> <tr><td>UL CATEGORY</td><td>QVGQ</td></tr> <tr><td>UL FILE NUMBER</td><td>E184939</td></tr> <tr><td>STANDARDS</td><td>IEC 61643-11, NOM-003-SCFI-2014, NOM-001-SCFI-1993</td></tr> <tr><td>ENVIRONMENTAL STANDARDS</td><td>ROHS</td></tr> </table> | | UL STANDARD | UL497B (pending) | UL CATEGORY | QVGQ | UL FILE NUMBER | E184939 | STANDARDS | IEC 61643-11, NOM-003-SCFI-2014, NOM-001-SCFI-1993 | ENVIRONMENTAL STANDARDS | ROHS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UL STANDARD | UL497B (pending) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UL CATEGORY | QVGQ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UL FILE NUMBER | E184939 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ENVIRONMENTAL STANDARDS | ROHS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Part number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6419024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

