



- 1-pair Surge protection
- Pluggable protection module
- Optical fault indication
- Indirect shield connection
- Visual indicator in failsafe behaviour
- Indirect earthing
- Current circuit disconnection when module is unplugged
- Conforms to IEC 61643-21, VDE 0845-3-1 and UL497B



| | 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>RS422</td> </tr> <tr> <td>Nominal line voltage</td> <td>Un</td> <td>6 V</td> </tr> <tr> <td>Max. DC operating voltage</td> <td>Uc</td> <td>8 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 <i>max. withstand @ 8/20 μs by pole</i></td> <td>I_{max}</td> <td>20 kA</td> </tr> <tr> <td>Line inductance</td> <td></td> <td>No</td> </tr> <tr> <td>Protection mode(s)</td> <td></td> <td>Common/Differential mode</td> </tr> <tr> <td>Protection level <i>Following the test category C3 (IEC61643-21) - Line/Line</i></td> <td>Up</td> <td>20 V</td> </tr> <tr> <td>Impulse current <i>2 x 10/350 μs Test - D1 Category</i></td> <td>I_{imp}</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>Line/Line Nominal discharge current <i>C2 Category</i></td> <td>I_{n L/L}</td> <td>5 kA</td> </tr> <tr> <td>Nominal Discharge Current, X-C (Line/Earth) <i>8/20 μs Test x 10 - C2 Category</i></td> <td>I_{n L/PE}</td> <td>5 kA</td> </tr> <tr> <td>Line resistance</td> <td></td> <td>< 4.7 Ohm</td> </tr> </table> | | Network | | RS422 | Nominal line voltage | Un | 6 V | Max. DC operating voltage | Uc | 8 Vdc | Max. frequency | f max. | > 3 MHz | Insertion loss | | < 1 dB | Max. discharge current <i>max. withstand @ 8/20 μs by pole</i> | I _{max} | 20 kA | Line inductance | | No | Protection mode(s) | | Common/Differential mode | Protection level <i>Following the test category C3 (IEC61643-21) - Line/Line</i> | Up | 20 V | Impulse current <i>2 x 10/350 μs Test - D1 Category</i> | I _{imp} | 5 kA | Nominal discharge current <i>C2 Category</i> | I _n | 5 kA | Line/Line Nominal discharge current <i>C2 Category</i> | I _{n L/L} | 5 kA | Nominal Discharge Current, X-C (Line/Earth) <i>8/20 μs Test x 10 - C2 Category</i> | I _{n L/PE} | 5 kA | Line resistance | | < 4.7 Ohm | | | | | | | | | | | | | | | | | | | | | | | | | |
| Network | | RS422 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nominal line voltage | Un | 6 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. DC operating voltage | Uc | 8 Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. frequency | f max. | > 3 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Insertion loss | | < 1 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. discharge current <i>max. withstand @ 8/20 μs by pole</i> | I _{max} | 20 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line inductance | | No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protection mode(s) | | Common/Differential mode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protection level <i>Following the test category C3 (IEC61643-21) - Line/Line</i> | Up | 20 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Impulse current <i>2 x 10/350 μs Test - D1 Category</i> | I _{imp} | 5 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nominal discharge current <i>C2 Category</i> | I _n | 5 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line/Line Nominal discharge current <i>C2 Category</i> | I _{n L/L} | 5 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nominal Discharge Current, X-C (Line/Earth) <i>8/20 μs Test x 10 - C2 Category</i> | I _{n L/PE} | 5 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line resistance | | < 4.7 Ohm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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) | <table border="1"> <tr> <td colspan="3">Mechanical Characteristics</td> </tr> <tr> <td>Disconnection</td> <td></td> <td>Specific version with line cut-off in case of removal plug-in module</td> </tr> <tr> <td>Technology</td> <td></td> <td>GDT+Clamping diode+PTC (thermal resistor) + Resistor</td> </tr> <tr> <td>SPD configuration</td> <td></td> <td>1-pair+shielded</td> </tr> <tr> <td>Connection to Network</td> <td></td> <td>By spring contact terminal: 0.5-4 mm²</td> </tr> <tr> <td>Format</td> <td></td> <td>Plug-in DIN box</td> </tr> <tr> <td>Mounting</td> <td></td> <td>Symmetrical rail 35 mm (EN 60715)</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>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></td> <td>Yes</td> </tr> <tr> <td>Disconnection indicator</td> <td></td> <td>Red light on</td> </tr> <tr> <td>Spare module(s)</td> <td></td> <td>DLAWS1M-06D3</td> </tr> <tr> <td>Dimensions</td> <td></td> <td>See diagram</td> </tr> <tr> <td colspan="3">Standards</td> </tr> <tr> <td>Standards compliance</td> <td></td> <td>IEC 61643-21 / EN 61643-21 / UL497A</td> </tr> <tr> <td colspan="3">Part number</td> </tr> <tr> <td colspan="3">6419014</td> </tr> </table> | | Mechanical Characteristics | | | Disconnection | | Specific version with line cut-off in case of removal plug-in module | Technology | | GDT+Clamping diode+PTC (thermal resistor) + Resistor | SPD configuration | | 1-pair+shielded | Connection to Network | | By spring contact terminal: 0.5-4 mm ² | Format | | Plug-in DIN 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 | | Opening line - transmission cut-off - fault mode 2 | With line cut-off in case of removal plug-in module | | Yes | Disconnection indicator | | Red light on | Spare module(s) | | DLAWS1M-06D3 | Dimensions | | See diagram | Standards | | | Standards compliance | | IEC 61643-21 / EN 61643-21 / UL497A | Part number | | | 6419014 | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Disconnection | | Specific version with line cut-off in case of removal plug-in module | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Technology | | GDT+Clamping diode+PTC (thermal resistor) + Resistor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPD configuration | | 1-pair+shielded | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connection to Network | | By spring contact terminal: 0.5-4 mm ² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Format | | Plug-in DIN 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 | | Opening line - transmission cut-off - fault mode 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| With line cut-off in case of removal plug-in module | | Yes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Disconnection indicator | | Red light on | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spare module(s) | | DLAWS1M-06D3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions | | See diagram | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Standards | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Standards compliance | | IEC 61643-21 / EN 61643-21 / UL497A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Part number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6419014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

