



CITEL

1-pair DIN rail plug-in Data surge protector

DLAWS1-06D3/R



- 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>@ I_n (8/20 μs)</i></td> <td>Up L/L</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>@ I_n (8/20 μs)</i>	Up L/L	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>@ I_n (8/20 μs)</i>	Up L/L	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)	Mechanical Characteristics <table border="1"> <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> </table>		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
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)																																																					
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																																																						

