



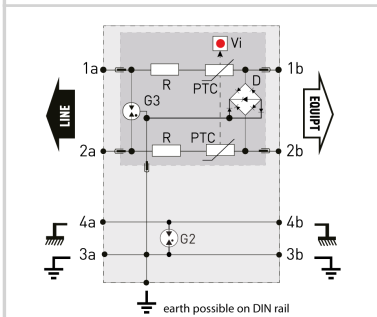
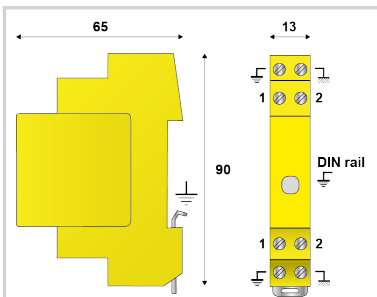
# CITEL

## 1-pair DIN rail plug-in Data surge protector

### DLAWS1-12D3



- 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



**G:** 3-electrode gas tube  
**Gb:** 2-electrode gas tube  
**PTC:** Thermal resistor  
**R:** Resistor  
**D:** Clamping diode  
**VI:** Indicator

#### Electrical Characteristics

Network		RS232, RS485
Nominal line voltage	Un	12 V
Max. DC operating voltage	Uc	15 Vdc
Max. frequency	f max.	3 MHz
Insertion loss		< 1 dB
Max. load current @25°C	IL	300 mA
Max. discharge current max. withstand @ 8/20 μs by pole	I <sub>max</sub>	20 kA
Nominal discharge current C2 Category	I <sub>n</sub>	5 kA
Nominal Discharge Current, X-C (Line/Earth) 8/20 μs Test x 10 - C2 Category	I <sub>n</sub> L/PE	5 kA
Protection Level C3 (10/1000 μs), 300 applications@10 A, Y-Y (Line/Line)	Up	30 V
Protection Level C3 (10/1000 μs), 300 applications@10 A, Y-C (Line/Earth)	Up	30 V
Impulse current D1 (10/350 μs), 2 applications, X-C (Line/Earth)	I <sub>imp</sub>	5 kA
Line/Line Nominal discharge current C2 Category	I <sub>n</sub> L/L	5 kA
Line resistance (± 10%)		4.7 Ohm

#### 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 screw terminal: cross section 0.5-2.5mm <sup>2</sup>
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-12D3
Dimensions		See diagram

#### Standards

Standards compliance		IEC 61643-21 / EN 61643-21 / UL497B
Certification		UL Listed
Environmental standards		EU RoHS

#### Part number

**6419021**

