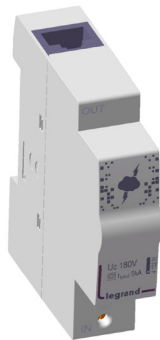


4 122 00



4 122 01



4 123 19

SOMMAIRE

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1. GENERAL CHARACTERISTICS

1.1 Brief description

Surge protective devices for telephone lines and analogue/STN – digital/xDSL communication networks⁽¹⁾. Provide protection against voltage surges on devices such as telephones, fax machines, modems (routers).

4 122 00 : C2⁽²⁾+D1⁽³⁾ type surge protective device without status indicator⁽⁴⁾, dual connection wired and RJ45 connectors, RJ11 compatible.

4 122 01 : C2⁽²⁾ type surge protective device without feedback⁽⁴⁾, RJ45 connectors, RJ11-compatible. Version only available in ready-to-install multimedia distribution boxes.

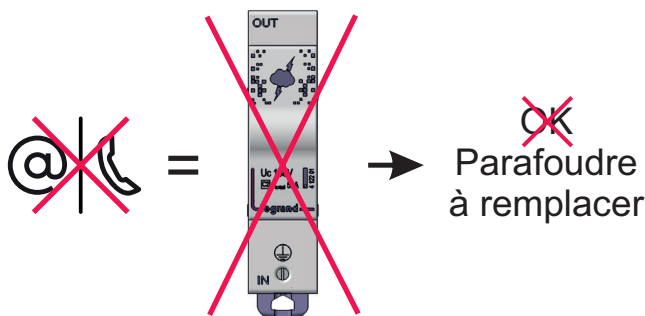
4 123 19 : Non-modular C2⁽²⁾ type surge protective device, without status indicator⁽⁴⁾, wired connectors.

⁽¹⁾ : Compatible with VDSL 2+ up to 100 Mbps. Very low losses along the line for all xDSL networks up to and over 100 Mbps (< 1 dB).

⁽²⁾ C2 : Surge protective devices tested in accordance with C2 overvoltage category (8/20 μs waveform according to standard EN/IEC 61643-21). Surge protective devices similar to Type 2/class II surge protective devices (standard EN/IEC 61643-11) for 230/400 V~ low voltage networks.

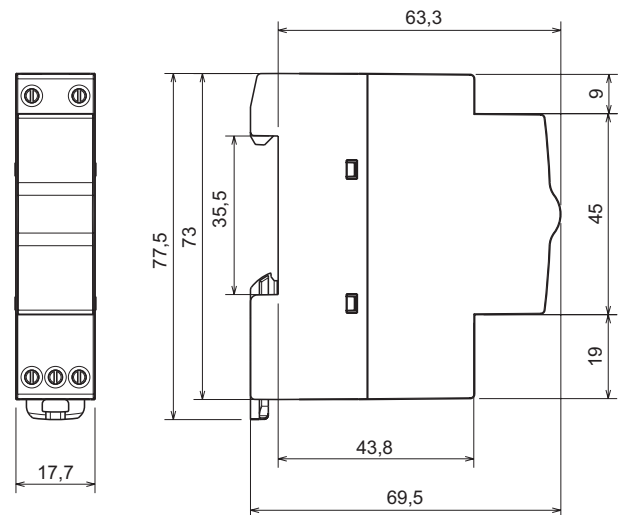
⁽³⁾ D1 : Surge protective devices tested in accordance with D1 overvoltage category (10/350 μs waveform according to standard EN/IEC 61643-21). Surge protective devices similar to Type 1/class I surge protective devices (standard EN/IEC 61643-11) for 230/400 V~ low voltage networks.

⁽⁴⁾ End of life : Short-circuiting of the line and loss of ring tone.

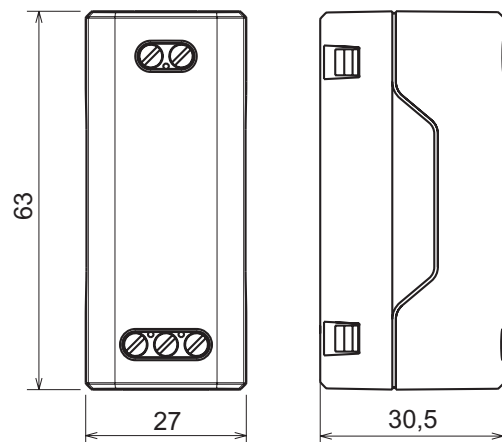


2. DIMENSIONS

2.1 Cat. Nos 4 122 00 - 4 122 01



2.2 Cat. No 4 123 19

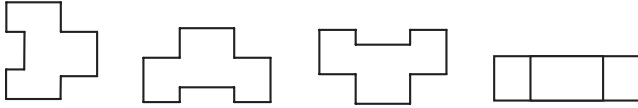


3. TECHNICAL CHARACTERISTICS

3.1 Operating positions

3.1.1 Cat. Nos 4 122 00 - 4 122 01

- Vertical, horizontal, reverse, sideways



On EN 60715 or DIN 35 symmetrical rail

3.1.2 Cat. No 4 123 19

All positions

3.2 Enclosure materials

Base/Plinth/Terminal supports :

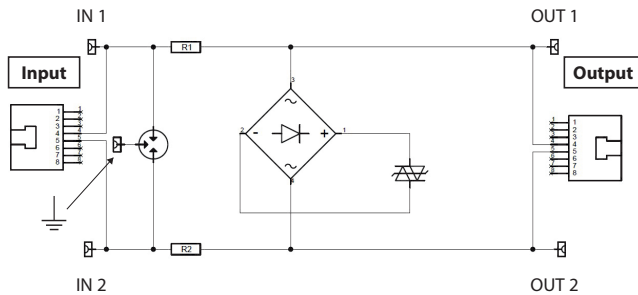
- Polycarbonate (PC)
- Self-extinguishing : 850°/30s
- Colour : Light Grey RAL 7035

3.3 Metal components materials

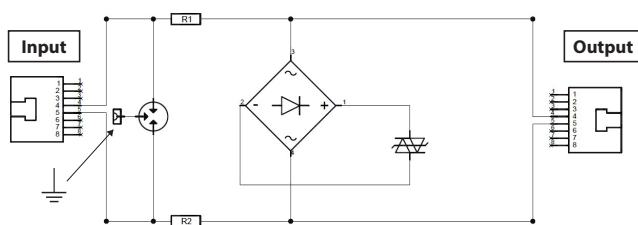
- Cage terminals : Zinc-plated steel
- Terminal screws : Zinc-plated steel
- Contacts : Tinned copper

3.4 Schematic diagrams

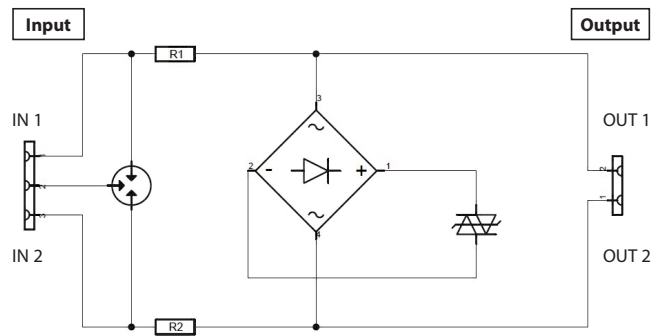
3.4.1 Cat. No 4 122 00



3.4.2 Cat. No 4 122 01



3.4.3 Cat. No 4 123 19



■ 3.5 Operating characteristics

Cat. No(s)		4 122 00	4 122 01	4 123 19	
Number of protected pairs (1 line = 1 pair)		1	1	1	
Test category		D1 ; C2			
Network		STN / xDSL			
Protection mode		Symmetrical (IN1/IN2) and Asymmetrical (IN1 or IN2/Earth)			
Max. steady state voltage (Uc)		180 V			
Attenuation (insertion loss) at:		0 à 30 MHz	≤ 0,6 dB		
		100 MHz	1,6 dB		
		200 MHz	3,8 dB		
C2	Nominal discharge current I_n (8/20 μ s)	IN1-IN2 ⁽¹⁾	10 kA (RJ : 2,5 kA)	2,5 kA	5 kA
		(IN1, IN2)-Earth ⁽²⁾	10 kA (RJ : 2,5 kA)	2,5 kA	5 kA
	Current I_{max} (8/20 μ s) IN1-IN2 and (IN1, IN2)-Earth		20 kA (RJ : 5 kA)	2,5 kA	10 kA
	Total discharge current I_{total} (8/20 μ s) (IN1+IN2)-Earth		20 kA (RJ : 5 kA)	5 kA	10 KA
	Protection level (Up) at I_n	IN1-IN2 ⁽¹⁾	380 v (RJ : 280 V)	280 V	280 V
		(IN1, IN2)-Earth ⁽²⁾	800 V (RJ : 600 V)	600 V	600 V
Protection level (Up) at 5 kA	IN1-IN2 ⁽¹⁾	600 V		<i>same as I_n</i>	
	(IN1, IN2)-Earth ⁽²⁾	280 V		<i>same as I_n</i>	
D1	Nominal discharge current in 10/350 μ s waveform	IN1-IN2 ⁽¹⁾	2,5 kA		2,5 kA
		(IN1, IN2)-Earth ⁽²⁾	2,5 kA		2,5 kA
	Total discharge current I_{total} in 10/350 μ s waveform		5 kA		5 kA
	Protection level in 10/350 μ s waveform	IN1-IN2 ⁽¹⁾	280 V		280 V
(IN1, IN2)-Earth ⁽²⁾		600 V		600 V	
Rated current (I_r)		450 mA			
Serial resistance		2,2 Ω			
Reseting time		≤ 5 ms			
Terminal capacity		0,08 à 2,5 mm ²		0,2 à 2,5 mm ²	
Location category		Indoor			
Installation method		Permanent			
Width (number of modules)		1	1	<i>see 2.2</i>	
Protection index		IP20 / IK04			
End of life		Loss of ring tone/Loss of line (xDSL) on the router			
Humidity level		HR : 5 à 95%			
Operating temperature		-25° / +70°C			
Storage temperature		-40° / +70°C			

(1) : Inter-line protection (differential mode)

(2) : Protection in common mode (line-earth)

4. STANDARDS

Conform to standards EN 61643-21/IEC 61643-21

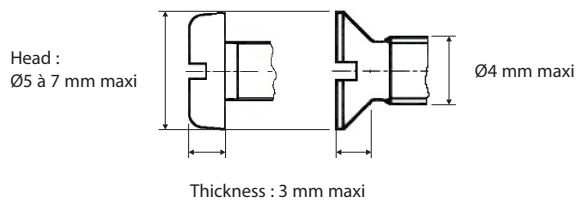
5. INSTALLATION

5.1 Cat. Nos 4 122 00 - 4 122 01

On 35 mm DIN rail according to DIN 35 profile or EN 60715, rails 7.5 or 15 mm deep.

5.2 Cat. No 4 123 19

- No fixing (held in place by the cables)
- Wall fixing or on a plate : with screws



- Fixed on 35 mm wide DIN rail with «Fixomega» accessories for M4 screws Cat. No 0 364 69 or 0 739 79.

5.3 Connections

5.3.1 Cat. No 4 122 00

Line connection :

- Wired (input and output): Screw terminals, 4 mm² max. capacity
- RJ45 (input and output): For RJ45 or RJ11 connectors
- Dual: Wired/RJ45 or RJ45/wired

Earth connection: Screw terminal, 4 mm² max. capacity
1.5 mm² min. cross-section recommended

5.3.2 Cat. No 4 122 01

Line connection (input and output): RJ45 or RJ11
Earth connection: Screw terminal, 4 mm² max. capacity
1.5 mm² min. cross-section recommended

5.3.3 Cat. No 4 123 19

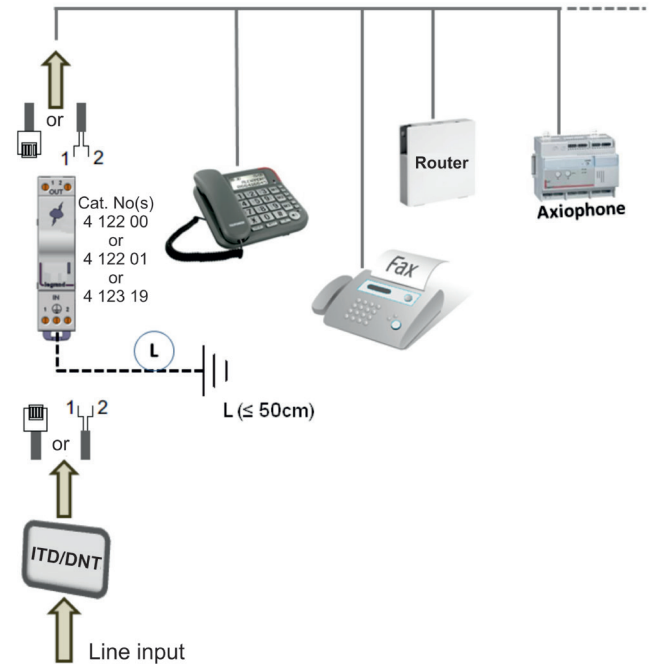
Line connection (input and output): Screw terminals, 4 mm² max. capacity
Earth connection: Screw terminal, 4 mm² max. capacity
1.5 mm² min. cross-section recommended

5.3.4 Wiring diagram

For mounting

- Downstream of the Indoor Termination Device (ITD) or Digital Network Termination (DNT)
- Upstream of the equipment to be protected

See diagram below



6. ACCESSORIES

Cat. No 4 123 19

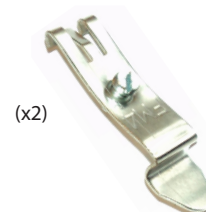
For fixing on a symmetrical rail

- Cat No 0 364 69



Fixomega for EN 60715 rail, M4 screws (not supplied)

- Cat. No 0 739 79



Fixomega for EN 60715 rail, M4 screws