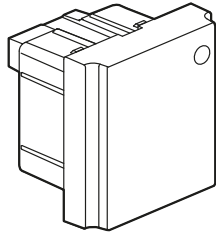
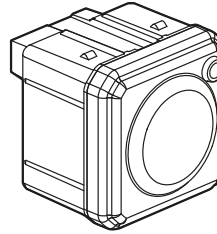


Mosaic™
Surge arrester

Cat. No(s): 0 775 40/41/42



0 775 40/42



0 775 41

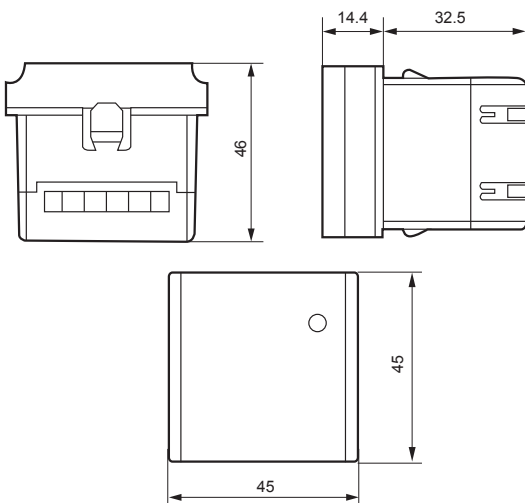
1. USE

Protection between phase and neutral of socket outlets connected downstream against overvoltages generated by the electrical network upstream of the voltage surge protector, by creating a discharge current on the network and/or ground connection.
 To be used in addition to panel-connected voltage surge protectors.

2. RANGE

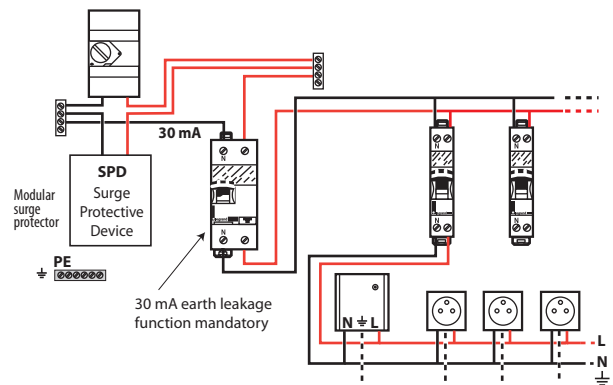
	Description	Cat. No
	Surge arrester - 2 modules	0 775 40
	Surge arrester cartridge	0 775 41
	Filter - 2 modules	0 775 42

3. OVERALL DIMENSIONS (mm)

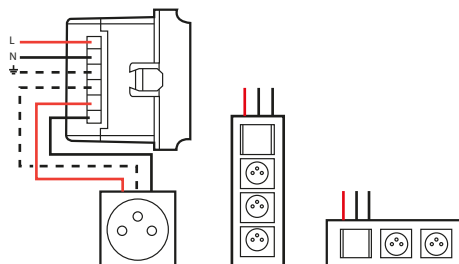


4. CONNECTION

Installation method Cat. No. 0 775 40/41



Cabling Cat. No. 0 775 42



Terminal type : with screws
 Number of terminals: 6
 Terminal capacity: 1 x 2.5 mm²
 screwdriver: flat 4 mm

5. OPERATION

■ 5.1 Surge protector function

- Surge protectors are designed to limit transient overvoltages of atmospheric and industrial origin.
- They have a certain capacity to absorb energy and age with each operation; it is therefore normal for them to be out-of-service after a certain number of operations. The imminent out-of-service status is signalled, and the plug-in module should be replaced.
- Surge protectors are designed to be installed at use points and are to be used in addition to the installation's original modular protection.
- They are not designed to provide sole protection for an installation in a building likely to be hit by direct lightning strikes e.g. buildings equipped with a lightning arrester). This would immediately put the device out-of-service by exceeding its maximum discharge capacity.
- Overvoltages of atmospheric origin occur between the active conductors and the earth. They are highly charged and uncontrolled.
- Overvoltages of industrial origin occur between the active conductors (P + N) and are not so highly charged.
- Mosaic Programme surge protectors are equipped with an «On» indicator light (to be checked on a regular basis).
 - Mains supply present and green indicator light on: operational protection.
 - Mains supply present and red indicator light on: change the module.

Once the plug-in module is out-of-service the installation is no longer protected but remains powered (including the unplugged module).

■ 5.2 Filter function

Independently of the overvoltage protection function, the filter function attenuates radio frequency conducted disturbances reinjected into the network by other uses (e.g. industrial environment). The filter Cat. No. 775 42 is supplied with a spare fuse.

- Mains supply present. Indicator light on. No voltage at socket : overload. Change the fuse and eliminate the overload (remove the cartridge to change the fuse (6.3 A)).

6. TECHNICAL CHARACTERISTICS

■ 6.1 Mechanical characteristics

Protection against impact: IK 04
Protection against solid bodies and liquids: IP 20

■ 6.2 Material characteristics

Base + coverplate: Polycarbonate
Colour: - base: storm grey RAL 7016
- coverplate: white RAL 9003

Self-extinguishing:

+ 850° C / 30 s for insulating parts holding live parts in place
+ 650° C / 30 s for other parts made of insulating materials.

■ 6.3 Electrical characteristics

Voltage: 250 Vac max.
Frequency: 50/60 Hz
Current: 16 A (0 775 40/41) - 6 A (0 775 42)
Fuse protection : yes, Ref. 0 775 42
Type of fuse: 5 x 20 fast type 6.3 A (Ref. 0 775 40/41)
6 x 32 fast type 12.5 A (Ref. 0 775 42)
Protection level: L-N 25 ns
N-PE : 100 ns
L-PE : 100 ns
according to NF EN 61-643-11 LN: 1 kV: 1.5 kA
N-PE: 1 kV: 1.5 kA
L-PE: 1 kV: 1.5 kA
Leakage current at 250 Vac : < 1 mA for Ref. 0 775 40
Rated discharge current: 1.5 kA
Maximum current: 6 kA
For joined sockets L < 1

6. TECHNICAL CHARACTERISTICS (cont'd)

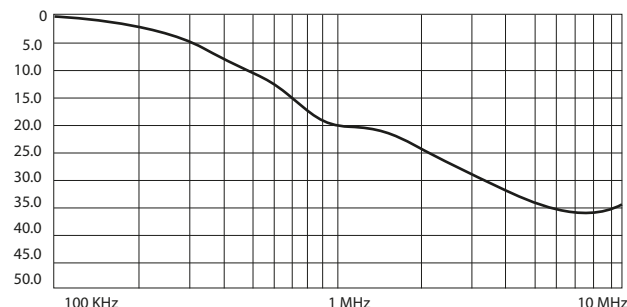
■ 6.3 Caractéristiques électriques (cont'd)

Surge arrester (for Cat. No. 0 775 40 only)

Leakage current at 250 Vac between conductor and earth: < 1 mA

Filter (for Cat. No. 0 775 42 only)

Leakage current at 250 Vac between conductor and earth: < 1 mA



Asymmetrical attenuation (between phase or neutral and earth) in dB.

Frequency (Mhz)	0.1	0.5	1	5	10
Attenuation (dB)	0	10	20	35	35

Built according to NF C 61-111

■ 6.4 Climatic characteristics

Storage temperature: - 20° C to + 60° C
Use temperature: - 5° C to + 40° C

7. CLEANING

Surface cleaning with a cloth.
Do not use: acetone, tar remover, trichloroethylene.

Caution: A preliminary test should be carried out if other specific cleaning products are to be used.

8. SPECIFIC RULES FOR USE

- Regularly check that the indicator light is on.
- Favour the use of an S-type circuit breaker for modular equipment only
- 30 mA earth leakage function mandatory.
- If the circuit-breaker cannot be reset, remove the plug-in module.
- Do not exceed 6 A for Cat. No. 0 775 42.

9. STANDARDS AND APPROVALS

According to NF EN 61643-11 (2012)