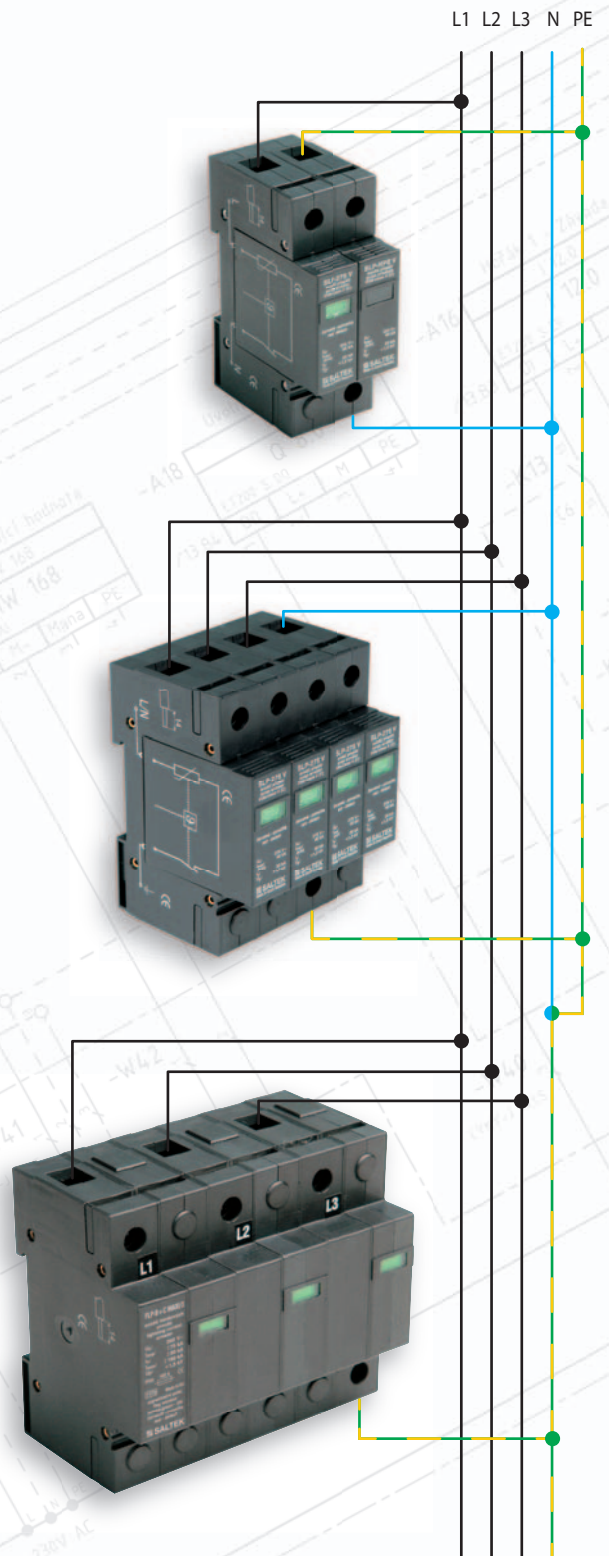


Surge Protection



T1

FLP-B+C MAXI

**Combined lightning and surge arrester
MOV and spark-gap in serial connection**

T2

- $I_{imp} = 25 \text{ kA}$ (10/350) per module
- $I_{imp} = 100 \text{ kA}$ (10/350) total TNS/TT
- $I_{max} = 60 \text{ kA}$ (8/20)
- No leakage current
- No follow current
- $U_c = 260 \text{ V AC}$
- $U_p < 1,5 \text{ kV}$

25 kA
(10/350)

Installation into main distribution board and at the boundary of LPZ 0 and LPZ 1

60 kA
(8/20)

Versions:
FLP-B+C MAXI (single), FLP-B+C MAXI/1+1 (for single phase supply of system TT or TN-S),
FLP-B+C MAXI/3 (for system TN-C or TN-C-S), FLP-B+C MAXI/4 (for system TN-S),
FLP-B+C MAXI/3+1 (for system TT)

$U_p = 1,5 \text{ kV}$

Option: remote signalling

**T1**

FLP-275 VE

**Combined lightning and surge arrester based on MOV
Replaceable varistor module 36 mm per 1 line**

T2

- $I_{imp} = 12,5 \text{ kA}$ (10/350)
- $I_{max} = 100 \text{ kA}$ (8/20)
- No follow current
- $U_c = 275 \text{ V AC}$
- $U_p < 1,2 \text{ kV}$

12,5 kA
(10/350)

Installation into main (or sub) distribution board and at the boundary of LPZ 0 and LPZ 1

Option: remote signalling

100 kA
(8/20)

$U_p = 1,2 \text{ kV}$

**T1**

FLP-275 V

**Combined lightning and surge arrester based on MOV
Replaceable varistor module**

T2

- $I_{imp} = 7 \text{ kA}$ (10/350) per module
- $I_{max} = 60 \text{ kA}$ (8/20) per module
- $I_n = 30 \text{ kA}$ (8/20)
- $U_p < 1,2 \text{ kV}$

7 kA
(10/350)

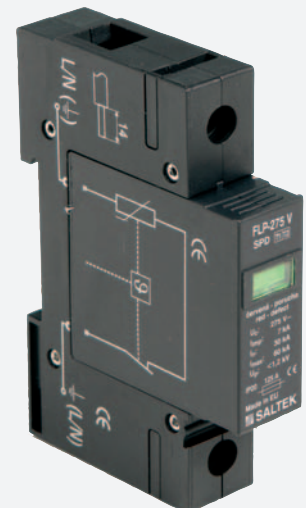
Installation into main (or sub) distribution board and at the boundary of LPZ 0 and LPZ 1

Versions:
FLP-275 V (single), FLP-275 V/3 (for system TN-C or TN-C-S),
FLP-275 V/4 (for system TN-S),
FLP-275 V/3+1 (for system TT)

60 kA
(8/20)

Option: remote signalling

$U_p = 1,2 \text{ kV}$



T2

SLP-275 V

Surge arrester to protect the distribution and equipment against overvoltage effects induced during a lightning strike and to prevent switching overvoltage
Replaceable varistor module

40 kA
(8/20)

$U_p = 1,2 \text{ kV}$

- $U_c = 275 \text{ V AC}$
- $I_{max} = 40 \text{ kA (8/20)}$
- $I_n = 20 \text{ kA (8/20)}$
- $U_p < 1,2 \text{ kV}$

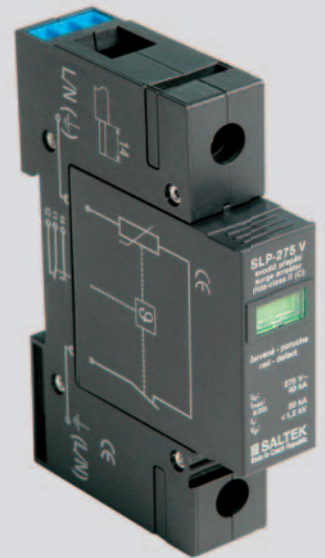
Versions:

SLP-275 V (single), SLP-275 V/1+1 (for single phase supply of system TT or TN-S), SLP-275 V/3 (for system TN-C), SLP-275 V/4 (for system TN-S), SLP-275 V/3+1 (for system TT)

Installation into sub distribution board or at the boundary of LPZ 1 and LPZ 2

Option: remote signalling

BESTSELLER

**T2**

SLP – for special applications

Surge arresters for different voltages:
from SLP-075 V up to SLP-550 V ($U_c = 75 \text{ V}$ up to 550 V AC),

75–600
V AC

Surge arresters for protection of inverters (for example wind turbines):
SLP-600 V ($U_{mov} = 880 \text{ V AC}$)

Surge arresters for protection of photovoltaic systems on DC side:
from $U_c = 100 \text{ V DC}$ (SLP-100 PH V/2) via 600 V DC (SLP-600 PH V/2+1)
up to 1000 V DC (SLP-1000 PH V/3), on AC side using standard T1+T2
combined protections

100–1000
V DC

Surge arresters without leakage current (for example for cathodic protection):
SLP-075 VB, SLP-130 VB, SLP-275 VB, SLP-385 VB ($I_{max} = 25 \text{ kA 8/20}$)

Replaceable varistor module

Single pole or combinations (TT, TNS...), special voltages or remote signalling
available on request

**T3**

DA-275

Overvoltage protection for installation close to the equipment
or at the boundary of LPZ 2 and LPZ 3

5 kA
(8/20)

$U_{oc} = 10 \text{ kV}$

$U_p < 1,0 \text{ kV}$

- $U_c = 275 \text{ V AC}$
- $U_{oc} = 10 \text{ kV}$
- $U_p < 1 \text{ kV}$

Versions:

DA-275 V/1+1, DA-275 V/3+1 – for TT or TN-S system,
replaceable varistor module

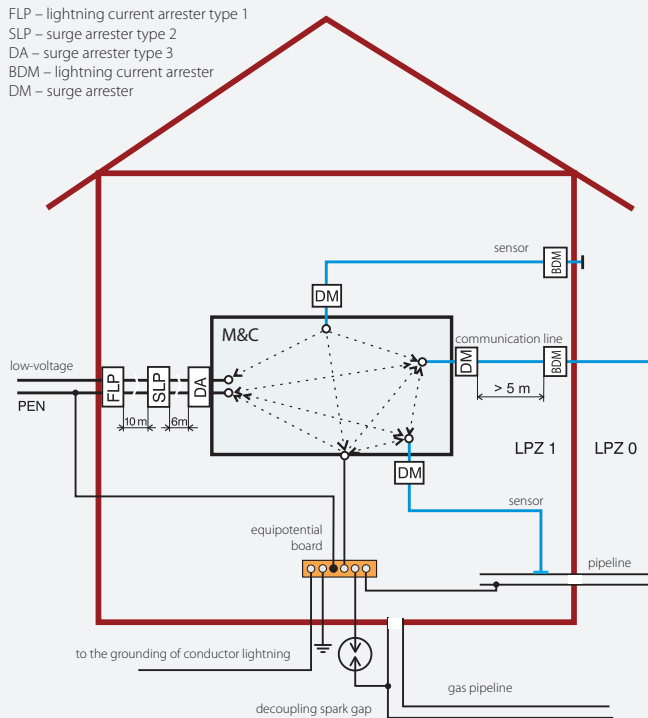
DA-275 DJ – 18 mm protection for one phase supply of equipment,
also available $U_c = 130 \text{ V}$

DA-275 DF – overvoltage protection with RFI filter,
load current 2, 6, 10 or 16 A

Option: remote signalling



FLP – lightning current arrester type 1
 SLP – surge arrester type 2
 DA – surge arrester type 3
 BDM – lightning current arrester
 DM – surge arrester



Principle of protection coordination and protection complexity

Telecommunication, signal and data line protections

Lightning current arrester
 BD lightning current arrester
 BDM, BDG lightning current arrester combined with surge protection

Combination of coarse and fine surge protection
 DM-xx/J z DS to protect 1–4-wire lines
 xx = U_n [V DC]: 6, 12, 24, 48

Special surge protection
 DP for small voltage supply
 DM-PROFIBUS for the PROFIBUS industrial bus
 CLSA-TLF, CLSA-ISDN, DL for telecommunication
 DL for computer equipment (CAT 5a, CAT 6)
 DM-SECURE voltage and current limiter

Surge arrester for video circuits
 VL arrester for video circuits
 VL DJ arrester for video circuits on DIN 35 mm

Surge arrester for coaxial line
 FX, HX, ZX lightning current arrester
 SX surge arresters



Voltage guard

A device designed to monitor electric voltage in one-phase or three-phase electrical systems 230/400 V AC and to protect all types of electrical and electronic equipment, particularly air-conditioning and cooling units, from voltage fluctuation. If the set voltage limits are reached, the monitor disconnects the appliance from the electrical system.

- Versions:
- VG-230 X16 (socket adapter with integrated surge protection type 3),
 - VG-400 DJ (monitor for three phases).



SALTEK, Limited Liability Company, is a Czech company specialized in the development and the production of surge protective devices (SPD). We offer a wide assortment of lightning current arresters and surge protections protecting electric and electronic equipment in low voltage supply mains, a wide range of surge protections for computers, measurement and control and telecommunication. All products conform to international standards. Exceptional attention is paid to care for product quality. The Quality Control System according to ISO 9000 standards was introduced and certified in 1998. In the following year, the company implemented the Safety Management System (OHSAS 14001) and the Environmental Management System (ISO 18001). Certification authority of SALTEK is TÜV NORD.

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