VOLT-SPB

SURGE PROTECTION DEVICE

SPD is used for protection of electric systems and equipment in the certain conditions from various surge overvoltages and impulse currents, such as lightning strokes, switching impulses, and transient processes. (GOST IEC 61643-12-2022).

SPD is a complete device with its own connection and contains at least, one non/linear element (zinc oxide variable resistor or gas-filled discharger).

Surge overvoltage protection is an important safety element in all branches of industry where the expensive equipment is used.

www.volt-spb.ru | info@volt-spb.ru

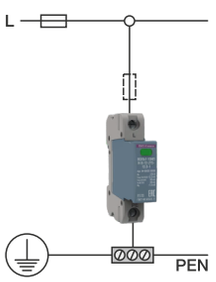
RELIABLE PROTECTION OF EQUIPMENT WITH VOLT-SPD

WE CAN HELP YOU TO CHOOSE OPTIMAL SPD PROPERTIES

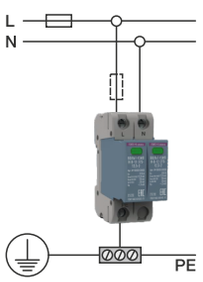
WE CAN RELIABLY PROTECT YOUR EXPENSIVE EQUIPMENT

WE GUARANTEE THE HIGH QUALITY OF OUR PRODUCTS

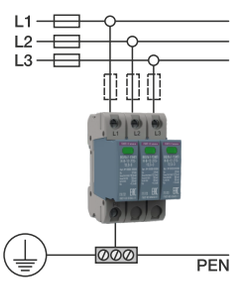
SPD CONNECTION OPTIONS TO THE ELECTRIC CIRCUIT



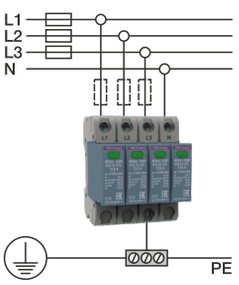
1P



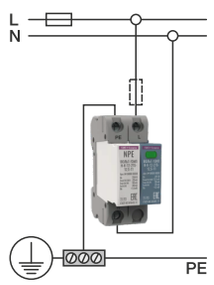
2P



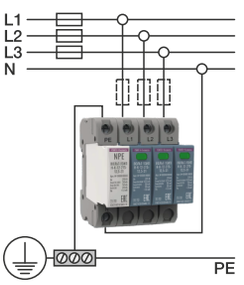
3P



4P



1+NPE



3+NPE

VOLT-SPB

«VOLT-SPB» – specialized manufacturer of lightning protection and grounding systems, characterized by flexible management and solid approach to production, quality standards and service.

WE have our own manufacture located in Gatchina, Leningrad Region. The processes of design, development, manufacture and release are carried according to the requirements of ISO 9001:2015 and STO Gazprom 9001-2018.

OUR equipment is successfully used at the facilities of the largest national companies, such as Gazprom PJSC, Gazprom Neft PJSC, NK ROSNEFT PJSC, NOVATEK PJSC, Lukoil PJSC, SIBUR Holding PJSC, Norilsky Nikel Mining and Metallurgical Company PJSC, Apatit JSC, Severstal PJSC, Polus PJSC, Polimetall PJSC, Highland Gold Mining Limited, Udokanskaya Med HC JSC, FSKRosseti PJSC, Russian Railways OJSC, and the others.

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SYMBOLS

VOLT-SPD (1) - L (2) - C (3) - 123 (4) - 320 (5) - 7 (6) - 11 (7) - D (8)

1 SERIES

VOLT-SPD

2 SYSTEM

L – low voltage power distribution alternating current (AC) system with voltage up to 1000 V

P – photoelectric direct current (DC) system with voltage up to 1500 V

3 TYPE

L – limiting (based on zinc oxide variable resistors)

S – switching (based on gas-filled dischargers)

C – combined (based on zinc oxide variable resistors and gas-filled dischargers)

4 CLASS

According to GOST IEC 61643-11-2013:

1 – test class I 2 – test class II 3 – test class III

12 – test class I+II

23 – test class II+III

123 – test class I+II+III

5 VOLTAGE

Maximum continuous operating voltage ($\mathbf{U_c}$), V

6 CURRENT

Lightning pulse current ($\mathbf{I_{imp}}$) – for the test class I with the wave form 10/350 – kA

Nominal breakdown current ($\mathbf{I_n}$) – for the test classes II and III with the wave form 8/20 – kA

7 POLARITY

1 – single-pole (1P), for protection of phase conductor – L/PE, L/PEN, N/PE

2 – two-pole (2P), for protection of phase and zero conductor – L/PE and N/PE

3 – three-pole (3P), for protection of phase conductors – L/PEN

4 – four-pole (4P), for protection of phase and zero conductor – L/PE and N/PE

11 – two-pole (1+NPE), for protection of phase and zero conductor – L/N and N/PE

31 – four-pole (3+NPE), for protection of phase and zero conductor – L/N, N/PE

8 MODIFICATION

D – "dry" contact for remote control of SPD operation condition

SYMBOL RECORD EXAMPLE:

VOLT-SPD-H-B-123-275-10-31-C

1. VOLT-SPD series
2. Low voltage AC system
3. Limiting type
4. Test class I+II+III
5. U_c = 275 V
6. I_{imp} = 10 kA
7. Four-pole (3+NPE)
8. "Dry" contact