ELECTRIC Suntree XinChi Electric

Plug in/out style surge protective device

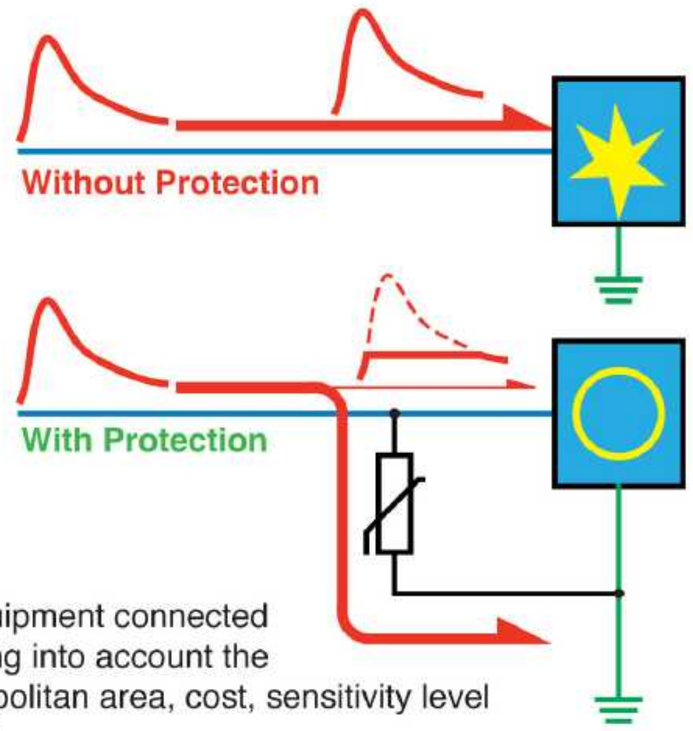
Remote signaling interface, could be remote control

Suitable for the wind power generation and PV system

Comply with IEC61643-1, IEC61643-21 and UL1449 ed.2 Standards

Lightning induced surges and electrostatic discharges can create very strong electromagnetic radiation over long distances, which can destroy all equipments connected to any nerby power lines. Whether routed inside or outside the buildings, all lines are at risk from such discharges and therefore the use of Surge Protection Device (SPD) is highly recommended for protecting the equipments that are connected to the power lines.

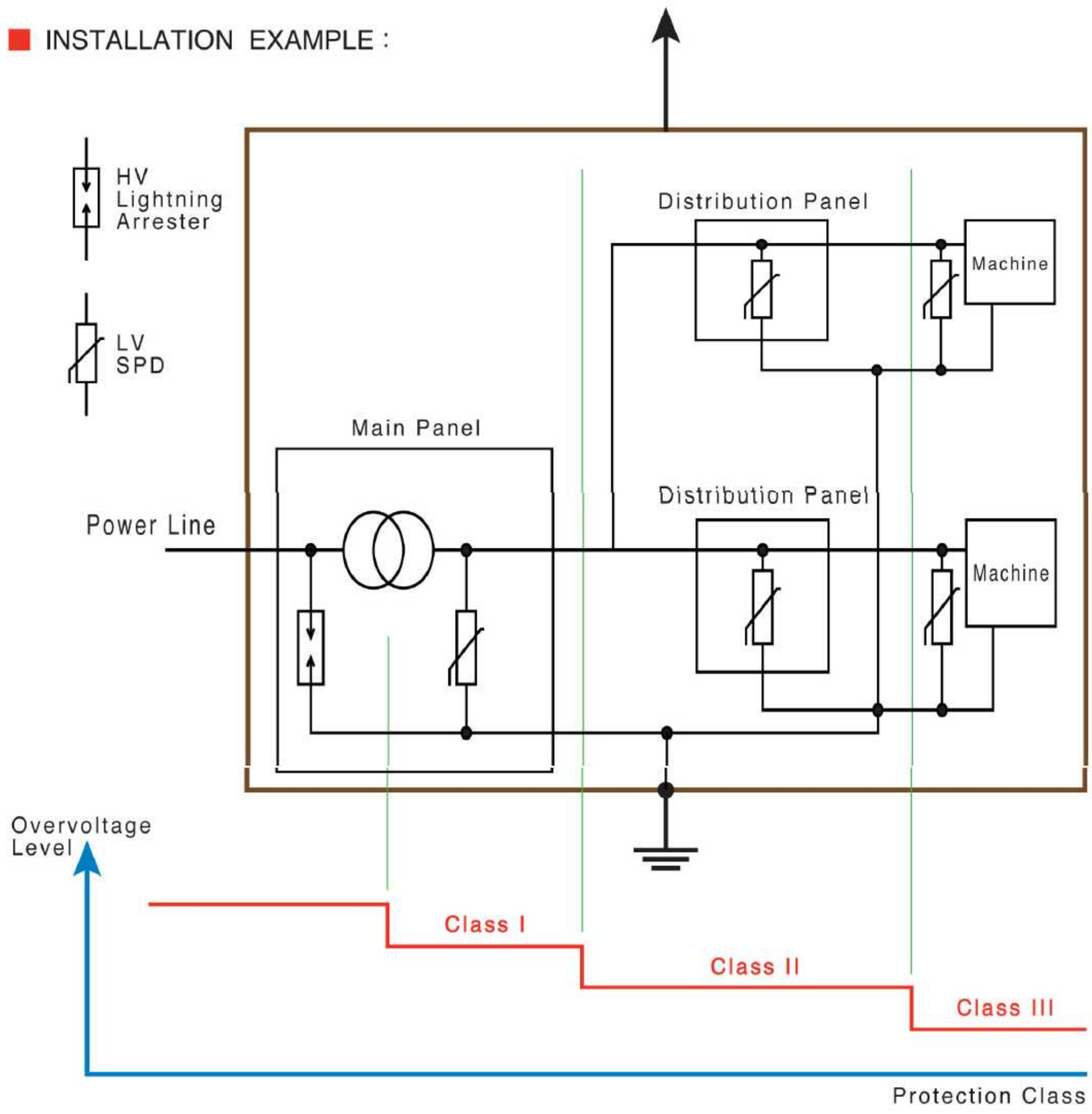
Also, surge can be induced by impulse current generated from internal supplying system and the ON and OFF (start and stop) of the power equipments such as arc furnace, motor, electrical and mechanical switching, capacitive and inductive load...etc. These surge currents would destroy any precise electronic device, cause error message or failure of power equipments, shorten their life expectancy and eventually break down the entire power plant. This is why Surge Protection Device is developed.



The induced surge currents are diverted to the earth before they can reach the equipments connected to the downstream power network while the overvoltages are kept to a harmless level and the equipments are kept running safely and normally.

These Surge Protection Devices are recommended for protecting any equipment connected to main power supplies. The selection of the product type is done by taking into account the exposition degree to lightning of the area, installation in isolated or metropolitan area, cost, sensitivity level of the equipment, the neutral earthing system and the installation method.

INSTALLATION EXAMPLE :



Keyword:1P, 2P, 3P, 4P, (+NPE), Similer OBO, Imax: 100kA, IEC6164-1

SUP1-D、C、B Surge protective device

Application

SUP1(D, C, B) 5 series surge protection device (in short: SPD, alias: surge suppressor, surge arrester) is suitable for TN-S, TN-C-S, TT, IT etc. power supply system of AC 50/60Hz, <380V, installed on the joint of LPZ1 or LPZ2 and LPZ3, it's designed according to IEC61643-1, GB18802.1, it adopts 35mm standard rail, there is a failure release mounted on the module of surge protection device. When the SPD fails in breakdown for over-heat and over-current, the failure release will help electric equipments separate from the power supply system and give the indication signal, green means normal, red means abnormal, it also could be replaced for the module when has operating voltage.

Product features

- Could be replaced for the module not need power off.; ● Maximum current of endure the lightning stroke 40kA (8/20 μ s).
- Time of response <25ns.; ● The color of visible window shows operating status, green means normal, red means abnormal.

Specifications

Technical Parameters	SUP1 D.C.B					
Protection Level B,C,D Grade	D.C.B					
Rated Operating Voltage Un(V~)	380V /220V					
Maximum Continuous Operating Voltage Uc(V~)	275V	320V	385V	385V	385V	420V
Voltage Protection Level Up(V~)kV	≤ 1.0	≤ 1.2	≤ 1.8	≤ 2.0	≤ 2.2	≤ 2.8
Nominal Discharge Current In(8/20s)kA	5	10	20	30	40	60
Maximum Discharge Current Imax(8/20s)kA	10	20	40	60	80	100
Response Time (ns)	<25					
Test Standard	IEC61643.1,GB18802.1					
Operating Environment (centigrade)	-40℃ ~+85℃					
Max Connection Line	35mm2 hard wire/ 35mm2 strand wire copper line					
Recommended Connection Line	16mm2 hard wire/ 25mm2 strand wire copper line					
Installation	Standard Rail 35mm					
Material of Outer Covering	Burning-proof Nylon					

Dimensions