

QuickSafe® next-generation surge protection device

Hidden hero for electrical systems

Surge protection devices (SPDs)



SPDs are designed to protect electrical systems and equipment against transitory surges in the electrical grid. They work mainly against direct and indirect lightning strikes in buildings and incoming lines.



SPDs prevent device failure and loss of productivity in residential, industrial and commercial applications. They provide:

- ↳ extremely good protection levels
- ↳ preventive maintenance, and are simple to install

Why it is important

In all sectors that rely on computer systems



Businesses like:

data centers

hospitals

banks



Transient surges can have catastrophic consequences, like loss of:



operation

service & data

productivity

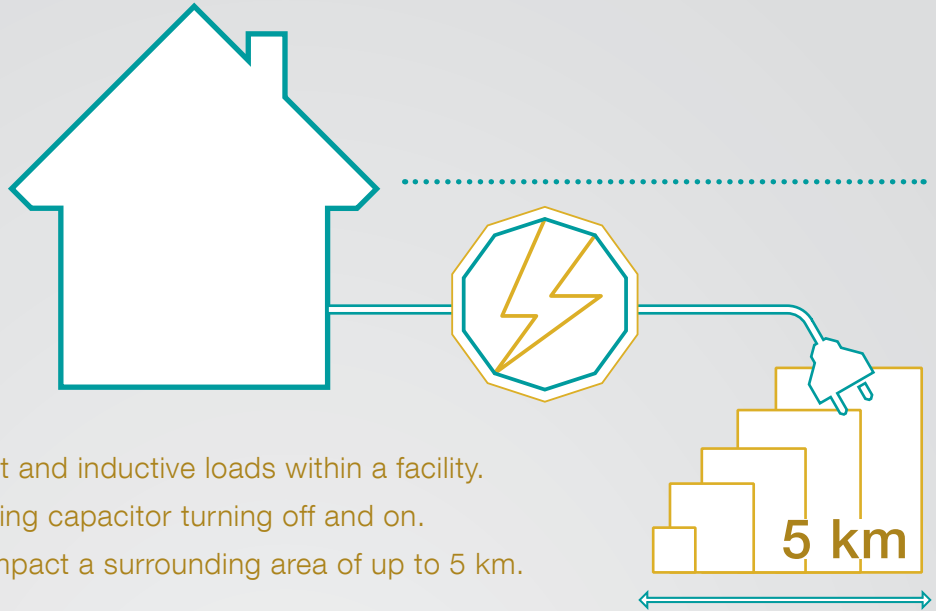
Power and productivity
for a better world™



Power surge

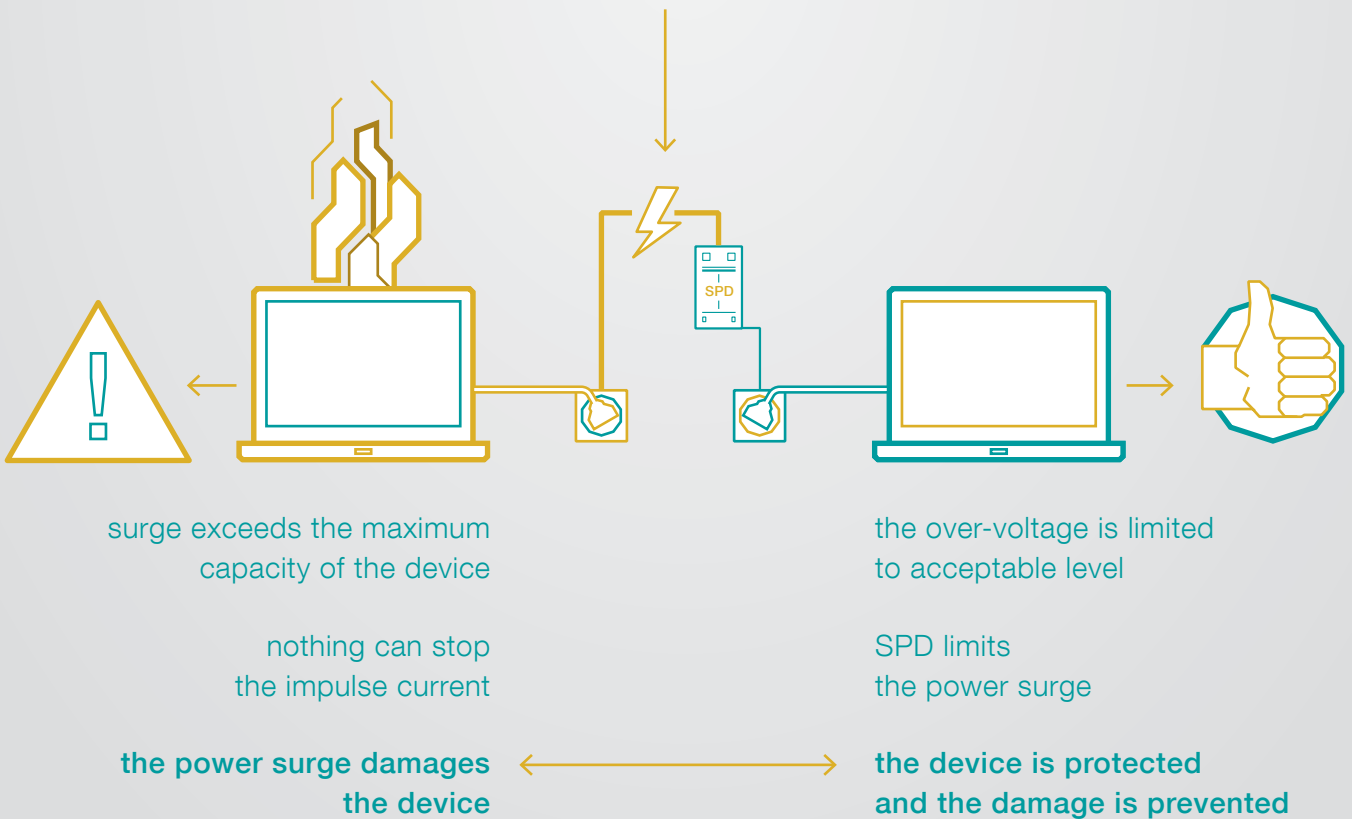
The following are typical sources of surges:

- Switching of equipment and inductive loads within a facility.
- Utility switching, including capacitor turning off and on.
- Lightning, which can impact a surrounding area of up to 5 km.



The probability of your facility experiencing a power surge is nearly **100%**

over-voltage reaches the equipment How standard SPDs work



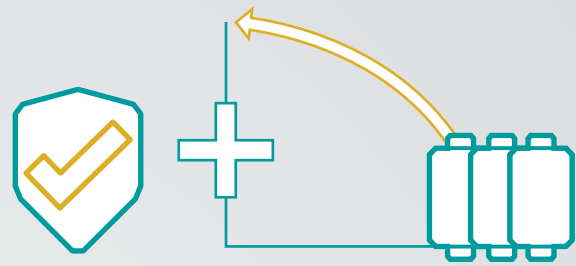
QuickSafe with safety reserve system

With QuickSafe ABB brings unprecedented safety to mission critical electrical equipment.

The new and unique device can have an optional safety reserve system, which prevents unplanned or unforeseen outages.

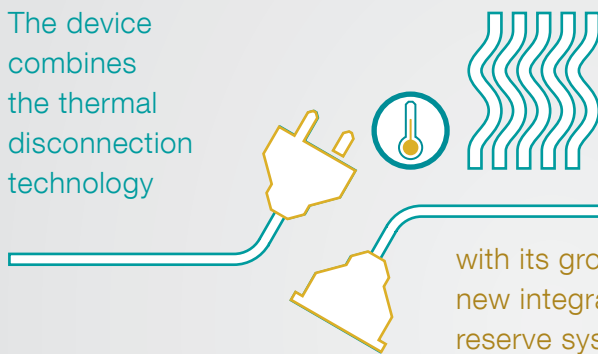
In this way, the quality of service and equipment life span is increased.

The safety reserve system provides a unique preventive maintenance feature for SPDs.

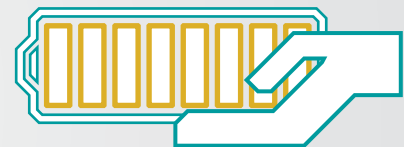


Unprecedented technology: 2 components per device

The device combines the thermal disconnection technology



with its ground-breaking new integrated safety reserve system.



1

+

2

a mechanical indication shows that the component needs replacing

easy identification and safe replacement

the second varistor (MOV)

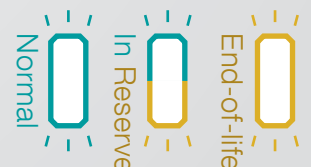
protects the equipment with reserve system

QuickSafe vs standard SPD

End-of-life indicator: **standard SPD**

End-of-life indicator: **with safety reserve system**

Protection	Availability of the electrical system	
100%	0%	you have to switch off the electrical system to replace the SPD
0%	100%	you keep the electrical system running but it is not protected anymore
100%	100%	new QuickSafe technology with safety reserve system

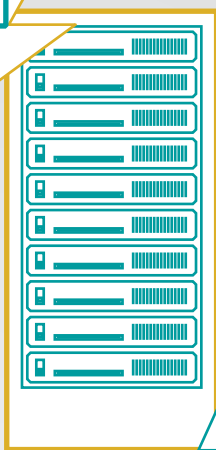




Standard SPD

SPDs have a limited life span, which decreases with every surge. That makes the protection time variable and unpredictable.

When the standard SPD's life span is over the equipment is left unprotected.



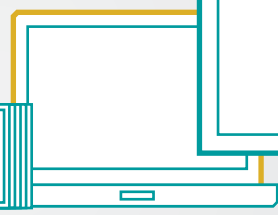
QuickSafe

All systems are kept running.



..... **Smart solution**

A computer outage lasting more than **10** days may cause a business to never fully recover financially.



50% of these companies will be out of business within **5** years.



With several benefits, ABB's innovative QuickSafe range is a small investment for a huge gain.

It costs little more than the standard solution.