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Title: Surge-proof communication power supply cabinets for European steel mills

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What is a surge protection device?

Surge Protective Devices are designed to protect against transient surge conditions. Large single surge events, such as lightning, can reach hundreds of thousands of volts and can cause immediate or intermittent equipment failure.

Why is surge protection important?

Surge protection is the only thing that helps. Indeed, the operator of an electrical system generally replaces the material damage to the system with corresponding protection. However, the difference in time between failure of the system to maintenance represents a risk in itself.

What is an example of a surge protection system?

One example is the system technology that is used for renewable energies (photovoltaics and wind power). For this reason it is important to really understand the system to be protected and its environment, in order to develop tailor-made surge protective devices.

Where should surge protection devices be installed in a structural system?

Deciding where to install surge protective devices within a structural system is based on the lightning protection zone concept explained in Part 4 of the lightning protection standard IEC 62305 . It divides structural systems into lightning protection zones (LPZ), and does so from outside to inside with decreasing lightning protection levels.

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These metal enclosures for electrical and electronic equipment (up to 1000V) provide protection from hazardous parts and provides a degree of ...

Recent fires at several major European steel mills have disrupted production, tightening supply and contributing to price increases for flat steel products, with market ...

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We urge the new European Commission and EU governments to stop this bloodshed and adopt swift measures on trade, CBAM, energy and steel ...

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Type 1 surge protective devices must fulfil the highest requirements in terms of amplitude and specific energy from surge voltages or surge currents, as they are supposed to protect from ...

The steel industry is poised to move up in the political agenda of various European nations in 2025 as governments begin addressing production and job cuts. European ...

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You need a type 2 DC surge protection device in every control cabinet and communication system. These devices protect your critical systems from surges, improve ...

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These cabinets are assembled using many different components, usually mounted on DIN rails. But often overlooked is surge protection which is needed to keep these critical controls ...

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