**Failure diagnosis**

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| **Description**  Energy Quality Diagnosis with a single measurement, by production line.  Two simultaneous measurements.  Simultaneous measurement for seven days at three different points + thermography of each point measured + three measurements of grounding system + review of up to three capacitor banks. | **Scope**  **Measurement for seven days in a single point** + point thermography measured + one grounding system measurement + revision of a capacitor bank.  **Measurement for seven days of two points simultaneously** +thermography of each measured point+ two measurements of the grounding system + revision upto two capacitor banks.  **Measurement for seven days at three points simultaneously** +thermography of each measured point+ three measurements of the grounding system + revision up to three capacitor banks. |

**Do you know the importance of good energy quality?**

Discover the main disturbances that cause failures in your equipment and a decrease in performance. Remember that good energy quality in your company allows you to protect your resources and productive processes 100%.

**Voltage gaps:**

They are sudden falls (> 10%) caused by line faults.

**Impulses:**

They are high voltage values ​​for minimum times and may be caused by lightning, BC, closures of large loads or circuits.

**Short Interruptions:**

These are interruptions (<1 minute) or micro-power cuts caused by faults in the supply line that admit re-entry, storms.

**Variations of the effective voltage value:**

They are variations greater or less than 10% caused by large charge demands or low power factor.

**Long Interruptions:**

They are> 1 minute conditions in which the effective voltage value below 10% of the rated voltage Vc with a duration greater than 1 minute can be associated to factors such as external events or climatic damages or accidents.

**Distortion:**

Deformations in the voltage wave caused by power electronics.