

Neutral point of a power station generator





Overview

Why is neutral grounding important in power system design?

Abstract: In neutral grounding system, the neutral of the system or rotating system or transformer is connected to the ground. The neutral grounding is an important aspect of power system design because the performance of the system regarding short circuits, stability, protection, etc., is greatly affected by the condition of the neutral.

How to choose a neutral grounding point?

1. Selection Of System Grounding Point As illustrated in Figure 2, it is necessary to ground each voltage level to achieve the protection and advantages of neutral grounding. For example, if the 4.16 kV system in this diagram were not grounded, this level would have all the characteristics of an ungrounded system.

Can a generator be derived from a service neutral?

If the neutral is not interrupted, and the generator's output stays electrically connected to the service neutral (even through a transfer switch), then the system is not considered separately derived. In this case, the NEC treats the generator as part of the existing grounding system.

Where is a generator neutral grounded?

In the system shown in FIGURE 1, the neutral conductor is grounded at a single point at the normal service equipment and is not grounded at the generator. The utility neutral and the generator neutrals are interconnected at the 3-pole transfer switch.



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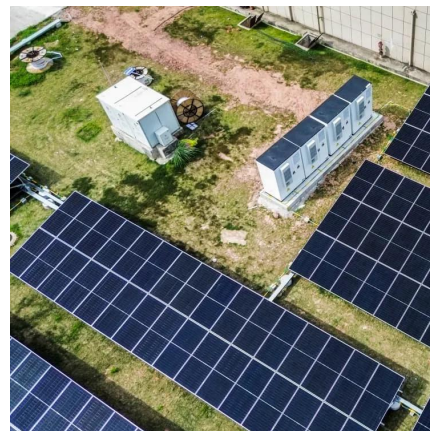
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Selection of System Grounding Point
Neutral Circuit Arrangement
In grounding the neutral of a power system, the advantages outlined will be achieved provided that proper attention is given to the impedance of the circuit from system neutral to ground. This circuit is illustrated in Figure 1 for the commonly used grounding methods. These methods are referred to as solid grounding, resistance grounding, reactance See more on electrical-engineering-portal daaam [PDF]



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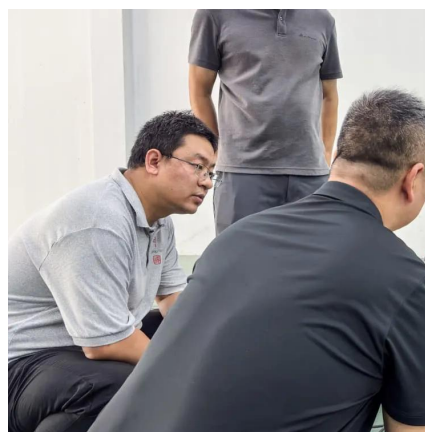


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