

Is DX an alarm in relay protection



Overview

In electric power systems and industrial automation, ANSI Device Numbers can be used to identify equipment and devices in a system such as relays, circuit breakers, or instruments. The device numbers are enumerated in ANSI/IEEE Standard C37.2 Standard for Electrical Power System Device Function Numbers, Acronyms, and Contact Designations.

Key Takeaways

DX is not a standard alarm type in relay protection; it typically refers to a specific relay indication or auxiliary contact designation rather than a universal alarm.

In relay protection systems, alarms are generally categorized as trip alarms, auxiliary alarms, or status indications. Common alarms include overcurrent, differential, earth fault, or breaker failure alarms, which alert operators to abnormal conditions or faults within a protected zone. The term DX is often used in relay schematics or manuals to denote a digital output contact or an auxiliary relay contact that can be configured to signal an alarm or status condition. For example, in some protection relays, DX may indicate a differential fault condition, a device trip, or a diagnostic signal, depending on the relay manufacturer and configuration. It is not a universal ANSI or IEC standard alarm code like 87 (differential) or 50/51 (overcurrent). Key points about DX in relay protection:

- DX is usually relay-specific and may appear in wiring diagrams or relay manuals as an output contact for alarm signaling.
- It can be programmed to trigger an audible or visual alarm in the control room when a certain condition occurs.

- Its function depends on the relay type, settings, and application, such as transformer differential protection, busbar protection, or line protection . In summary, DX is not inherently an alarm type; it is a designation for a relay output that can be used to activate an alarm or indicate a status. To determine its exact function, one should consult the specific relay's manual or configuration guide.

Article Content

ANSI device numbers

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