DSA Relay Protection



Overview

DSA A, DSA P and DSA D are Type 2 (Class C) surge arresters according to EN 61643-11 (VDE 0675, part 6-11) suitable for protecting low voltage systems from transient overvoltage due to both indirect atmospheric discharges and switching actions. SIPROTEC 5, built on extensive field experience, offers comprehensive functionalities and device types for modern electrical energy systems. Its modular design and powerful DIGSI 5 engineering tool provide tailored solutions. DSA for AC systems (range 280N) has a gas tube between. Numerical relays are based on the use of microprocessors., “Design, Modeling and Evaluation of Protective Relays for Power Systems,” Springer, ISBN 978-3-319-20919-7, 2016. Kezunovic, “ Fundamentals of Power System Protection, ” Wai-Kai Chen, Editor, The Electrical Engineering Handbook, Chapter on Electric Power Systems, pp. Protective Relay Definition: A protective relay is an automatic device that senses abnormal conditions in electrical circuits and triggers actions to isolate faults.



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Article Content

Aug 12, 2025

Relay margins as a tool for dynamical security analysis

The protective system is included in the mathematical model of the power system. Current methods for DSA proposed in the literature ignore discrete devices such as the relays. It is the

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Issue in agent authentication for Windows environment

Disable the self-protection of Deep Security Agent or Deep Security Relay, if needed. Deactivate the agent from the client via command line. Use RDP to connect to the primary relay.

Jan 31, 2026

Power Systems Protective Relaying

The system protection involves protecting a system, with all its components and power equipment, for example, industrial distribution systems, which may consist of a number of substations, main power

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Enable or disable agent self-protection | Deep Security

Agent self-protection prevents local users from tampering with the agent. When enabled, if a user tries to tamper with the agent, a message such as "Removal or modification of this application is prohibited

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Common issues when installing or updating the agent

When troubleshooting security update failures, the most common reason for the failure is due to network connectivity between the Deep Security Agent and the Deep Security Relay. The

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Design, Modeling and Evaluation of Protective Relays

This practical guide to how digital protective relays work in power systems and provides the engineering knowledge and tools to successfully design them.

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Connect agents behind a proxy | Deep Security

Connect agents behind a proxy You can watch Deep Security 12 - Scoping Environment Pt2 - Network Communication on to review the network communication related to the different Deep

May 03, 2026

The Role of Protection Relays in Power Systems and an

In this study, an experimental setup was designed to monitor electrical quantities and protect the system in the event of a fault. The system design employed an energy analyzer to

Jul 29, 2025

Types of Electrical Protection Relays or Protective Relays

Feb 24, 2012· Protective relays can be categorized based on their operating mechanisms into electromagnetic relay, static, and mechanical types.

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Uninstall Deep Security | Deep Security

Uninstall Deep Security Relay A Deep Security Relay is an agent where you have enabled the relay feature, so in order to remove the relay, you must uninstall the agent software. Uninstall a relay

Nov 01, 2025

Monitoring Relays Surge Arresters for AC and DC systems

DSA for AC systems (range 280N) has a gas tube between N and PE: therefore it is universally suitable for the TN-S, and TT power supply systems (mounting upstream the differential relay), preventing

Oct 31, 2025

Protection Relays

Technical resources and thought leadership for protection and control P& C relays for transmission, transformer, distribution feeders, bus, motors, generators, IEC 61850 process bus and digital meters.

Feb 23, 2026

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RFB-700/500

The RFB-700/500, which replaces obsolete Federal Pioneer DSP-MKII and DSA systems, is a neutral grounding resistor monitor with second ground fault protection that aims to increase the

Jun 06, 2026

Protective Relays

M. Kezunovic, et al., “Design, Modeling and Evaluation of Protective Relays for Power Systems,” Springer, ISBN 978-3-319-20919-7, 2016.

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Command-line basics | Deep Security

Command-line basics You can use the local command-line interface (CLI) to instruct Deep Security Agents and Deep Security Manager to perform actions. You can also use the CLI to

Apr 19, 2026

Upgrade the Deep Security Agent | Deep Security

To identify a relay, look for the relay icon (). Manually upgrade the agent on Windows Disable agent self-protection. To do this, on the Deep Security Manager, go to Computer editor To

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Protection relays

Numerical relays are based on the use of microprocessors. The first numerical relays were released in 1985. A big difference between conventional electromechanical

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Remove Deep Security Agent

s = 1 - to enable self-protection (default) s = 0 - to disable self-protection Run dsa_control –s=0 Open the registry editor. Go to HKEY_LOCAL_MACHINESOFTWARETrendMicroDeep

Dec 10, 2025

Enable or disable agent self-protection | Deep Security

To update or uninstall Deep Security Agent or Relay, or to create a diagnostic package for support (see Create a diagnostic package), you must temporarily disable agent self-protection. Agent self

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Store components of Deep Security Relay to another drive or path

Customer using Deep Security Relay could run into concerns where the default drive/path is using up a lot of disk space. Here is the approach using symbolic link to change directory path, so

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Power System Protective Relays: Principles & Practices

Protective relays and devices have been developed over 100 years ago to provide “lastline”of defense for the electrical systems. They are intended to quickly identify a fault and isolate it so the balance of

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SIPROTEC Protection Relays | Siemens

SIPROTEC: Multifunctional protection relays Experience the benchmark in grid protection, automation, and monitoring! SIPROTEC 5, built on extensive field experience, offers comprehensive

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Protective relay

Microprocessor-based solid-state digital protection relays now emulate the original devices, as well as providing types of protection and supervision impractical with

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