

Rdb Relay Protection



Article Overview

RDB relays are high-speed protective and lockout relays used in power systems, with software tools like SEL_RDB enabling configuration and analysis of relay settings.

RDB Relays in Power System Protection

RDB relays, such as the RDB86 series, are designed for high-speed tripping and lockout functions in electrical protection systems . They often combine HLB lockout relays and HLG quick relays:

- HLB relays are bistable magnetic retention relays with two independent coils and multiple contact circuits, suitable for circuit opening or closing applications without needing manual reset .
- HLG relays are high-speed multi-contact tripping relays with operating times under 8 ms, ideal for fast breaker tripping and auxiliary voltage applications . RDB relays are commonly used in bus bar protection, transformer lockout (86T), and differential protection schemes, where precise and rapid tripping is critical to prevent equipment damage and ensure system stability . They can be mounted in 1/4 rack cases or 19-inch racks for panel integration.

Electronic RDB Relays

Some RDB relays, like the Vector Energy RDB series, detect alternating leakage currents up to 1 kHz, including pulsating and continuous currents, providing electronic differential protection for sensitive circuits

Article Content

Nov 03, 2025

ASPEN Relay Database

The program relay setting exchange logic library supports many common transmission line protection

Jul 09, 2026

SARA: AUTOMATED TOOL FOR RELAY SETTING DEVELOPMENT

In SARA, engineers can create a template to define their protection philosophy, auto-populate information from ASPEN to eliminate

Nov 29, 2025

Software and Driver Downloads

Enhance the communications security of existing engineering access software solutions, such as SEL-5010 Relay Assistant

Feb 26, 2026

Relay Retrofit Program

The Relay Retrofit program is based on using protection relays belonging to the Relion® product family as replacement devices, pre

Feb 22, 2026

`rdb-tool/rdbextract.py` at master · danyill/rdb-tool · GitHub

Tool for manipulating Schweitzer Engineering Laboratories (SEL) relay database files (.RDB) files. Intended to allow automated

Jun 24, 2026

Protection relays

Protection relays Numerical relays are based on the use of microprocessors. The first numerical relays were released in 1985. A big

Mar 10, 2026

RDB RELAY

Electronic relay with display, external transformer and communications. If you have any questions or need

Nov 14, 2025

[rdb-tool/sel_logic_functions.py at master · danyill/rdb-tool](#)

Tool for manipulating Schweitzer Engineering Laboratories (SEL) relay database files (.RDB) files. Intended to allow automated

Jun 15, 2026

[SEL_RDB/README.md at main · AoufNihed/SEL_RDB · GitHub](#)

The SEL_Rdb toolkit is a specialized Python package designed to work with SEL (Schweitzer Engineering Laboratories) .rdb relay

Aug 04, 2025

SEL Grid Configurator: RDB Importer

This video illustrates how to import relay database (RDB) files into the SEL Grid

Sep 20, 2025

RDB86 Brochure

One of the most important applications of RDB relays is the combination with differential relays, where the lockout relay needs to be

May 09, 2026

SEL-Rdb · PyPI

SEL_Rdb A comprehensive toolkit for working with SEL (Schweitzer Engineering Laboratories) .rdb relay database files.

Jul 26, 2025

[SEL_RDB/rdb-tool/docs/PROJECT_SUMMARY.md at main](#)

The SEL_Rdb toolkit is a specialized Python package designed to work with SEL (Schweitzer Engineering Laboratories) .rdb relay

Nov 09, 2025

Looking for a crash course on using Doble Protection Suite ...

PS will import the rdb, but it causes crashes. #3 - Those settings can be linked, just like XRIO links #4 - For 51,21,87 you can create

May 10, 2026

Case Studies

This documentation provides step-by-step instructions on how to use the SEL_RDB package with the provided case studies. The

Mar 19, 2026

Protective relays and predictive devices | Eaton

Eaton's protective relays provide you with unique microprocessor-based devices that eliminate

Oct 20, 2025

RDB Electronic Relay

Class B differential protection. Detection of alternating leakage current up to 1kHz, pulsating and pure continuous. Electronic

Nov 25, 2025

Programming Software on understanding SEL settings

A few things: 1.) Using SEL AcSELeator (SEL-5030), some rdb files let you view the digital logic visually (the software draws it out

Apr 07, 2026

Utility Template Standardization | SynchroGrid

By standardizing protection and control templates, RDB files, relay setting development workflows,

May 11, 2026

SEL_RDB Documentation

SEL_RDB is a specialized Python toolkit designed to work with SEL (Schweitzer Engineering Laboratories) .rdb relay database files.

May 14, 2026

RDB86 Brochure

Applications RDB relays are applicable where several tripping functions need to be performed by the same relay. Typical applications

Aug 15, 2025

SEL-751 Feeder Protection Relay | Schweitzer Engineering Laboratories

The built-in web server enables secure, remote access to the relay with password protection. You can download status reports or

Jan 17, 2026

Protection Relay Testing Procedures

Protection relay testing procedures: data management & compliance reporting. Run manual, automated & IEC 61850 compliant tests

Jun 17, 2026

SEL Grid Configurator

What products will Grid Configurator support? Over time, Grid Configurator will support all SEL power system devices presently

Jul 17, 2026

SELConnect

SELConnect is a Python-based automation toolkit that streamlines the configuration of SEL relays by automatically

Contact Us

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