Substation products and solutions

Substation

Station class handstick disconnects

EH EHL EHTT

Application:
- Off-load disconnection and isolation of substation equipment.
- On-load disconnection and isolation of substation equipment.
- Substation tandem-transfer switching.

Voltage class (U d):
15, 25, 38 kV 15, 25, 38 kV 15, 25, 38 kV

Continuous current:
600, 900, 1,200, 2,000 A 600, 900, 1,200 A 600, 900, 1,200 A

Lightning impulse (BIL):
110, 150, 200 kV 110, 150, 200 kV 110, 150, 200 kV

Description:
The type EH is a simple and reliable power-class disconnect switch which features a square-tubular blade for exceptional mechanical rigidity and electrical conductivity.

Equipped with a Saf-T-Gap interrupter, the type EHL combines the advantages of the EH with the capabilities of a proven interrupter. The plug-in Saf-T-Gap interrupter is simple to install and remove with a standard shotgun stick.

Utilizing the advantages of the type EH switch in a tandem-transfer configuration, the EHTT provides an effective and safer means to redirect power when bypassing is required.

Features:
- High-pressure, coin-silver jaw contacts
- Positive-latch, effective pry-out mechanism
- Precision machined hinge and jaw castings for low-resistance connection
- 90º blade stop
- NEMA 3˝ D.B.C. insulators
- Standard or customized mounting options
- Galvanized steel channel or formed universal base.

Options:
- Available in a type V configuration
- Porcelain or polymer insulator
- Arc-resistant option
- Extended creepage
- Backplate set

Distribution circuit breaker

SDV7

Ratings:
- 15.5 kV, 20 kA to 40 kA, 1,200 A to 3,000 A, 110 kV BIL
- 17.5 kV, 20 kA to 40 kA, 1,200 A to 3,000 A, 110 kV BIL
- 27.6 kV, 20 kA to 25 kA, 1,200 A to 2,000 A, 150 kV BIL
- 38.0 kV, 20 kA to 40 kA, 1,200 A to 2,500 A, 200 kV BIL

Enclosure types:
- Standard: non-arc-resistant, type SDV7
- Optional: arc-resistant, accessibility type 2B to ANSI/IEEE C37.20.7, type SDV7-AR

Type SDV7 distribution circuit breaker family:
- SDV7-SE: type SDV7 non-arc-resistant with stored-energy operator
- SDV7-MA: type SDV7 non-arc-resistant with magnetic-actuator operator
- SDV7-SE-AR: type SDV7-AR arc-resistant with stored-energy operator
- SDV7-MA-AR: type SDV7-AR arc-resistant with magnetic-actuator operator

Features and benefits:
- Extended capacitor switching (optional)
- Tested for out-of-phase switching ratings (ANSI/IEEE C37.09)
- Large relay and control compartment
- Stainless steel exterior hardware
- Porcelain dry-type bushings with extended creepage
- Highly reliable vacuum interrupters - mean time to failure (MTTF) over 50,000 years
- Pair with Siemens protective relays to match most typical applications
- Moderate and high seismic qualification (zones 1-4) available
- Meets or exceeds the latest ANSI, IEEE and NEMA standards
- ANSI/IEEE “rain-tested” enclosure (ANSI/IEEE C37.20.2)
The Siemens family of outdoor, medium-voltage distribution products and solutions

### Distribution switching

#### Disconnects
- B and B-1
- PWM and DER

#### Disconnect switch configurations
- Robust square-tubular copper blade
- Loadbreak hooks
- Tinned terminal pads
- Anti-roll closer arm

#### Applications
- Overhead, busway, underground, substation
- High-pressure tubular copper blade
- Dependable operation

### Distribution protection

#### Protection
- Bank protection
- Arc-protection system
- Short-circuit withstand
- Overcurrent protection

#### Shielded enclosure
- Traditional housing
- Compact design
- Steel base

#### Applications
- Distribution
- Utility
- Commercial
- Industrial

### Distribution surge protection

#### Surge arresters
- Fusesaver circuit breaker
- CMR recloser
- SDR recloser

#### Features
- Energy class: E, A
- System voltage: 6.9 kV
- Continuous current: 50-1,660 A
- Short-circuit withstand: 25 times rated current

#### Applications
- Broadcasting, construction, photovoltaics, systems, and cable control

### Voltage regulation

#### Voltage regulators
- JP
- VR

#### Features
- Magnetic temperature compensated inductor
- Voltage change-out without power interruption
- Built-in accuracy

#### Applications
- Colloidal silica
- Melted silicon
- Overhead lines
- Transformer protection
- High-pressure
- Motorized operation